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# NINETEENTH ANNUAL REPORT

OF THE

## BOARD OF PARK COMMISSIONERS

OF

SAN FRANCISCO,

FOR THE YEAR ENDING JUNE 30, 1890.



SACRAMENTO:

STATE OFFICE, : : : : : J. D. YOUNG, SUPT. STATE PRINTING.

1890.

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## PARK COMMISSIONERS.

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W. W. STOW, PRESIDENT.

R. P. HAMMOND, JR.

JOSEPH AUSTIN.

JOHN McLAREN .....	Superintendent.
V. V. BLOCH .....	Secretary.
WM. HAM. HALL .....	Consulting Engineer.
HAROLD WHEELER .....	Attorney.

OFFICE OF THE COMMISSIONERS OF GOLDEN GATE PARK, }  
BUENA VISTA PARK, MOUNTAIN LAKE PARK, }  
SAN FRANCISCO, CAL., June, 1890. }

*To the Legislature of the State of California, and to the Honorable Board  
of Supervisors of the City and County of San Francisco:*

The Park Commissioners herewith present a report of their management of the grounds under their charge for the year ending June 30, 1890.

W. W. STOW, Chairman,  
R. P. HAMMOND, JR.,  
JOSEPH AUSTIN,  
Park Commissioners.

# PARK COMMISSIONERS AND OFFICERS

FROM THE ORGANIZATION IN 1870.

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The Act for the establishment of the grand parks of San Francisco was approved by Governor Haight, April 4, 1870.

On the nineteenth of the same month Governor Haight issued commissions, to run for four years, to the first Commissioners provided for in the Act.

On the third day of May following the Commissioners met at No. 320 California Street, and organized the Board as follows:

1870—S. F. Butterworth, President, D. W. Connelly, C. F. MacDermot. A. J. Moulder, Secretary. Abraham Seligman (appointed August first), Treasurer. W. H. Hall (appointed August fifth), Surveyor. Patrick Owens (appointed November seventeenth), Park Keeper.

1871—J. Seligman & Co. (appointed April tenth), Treasurer. W. H. Hall (appointed August fourteenth), Engineer.

1872—S. F. Butterworth, resigned January twelfth; Eugene L. Sullivan elected to vacancy. C. J. Brenham, appointed Commissioner, May tenth, vice Connelly, deceased. J. T. Fleming, elected Secretary, June twenty-eighth, vice Moulder, resigned. S. F. Butterworth, elected Commissioner, December thirty-first, vice Brenham, resigned.

1873—Wm. Alvord, appointed Commissioner, September tenth, to succeed MacDermot.

1874—Eugene L. Sullivan, President, S. F. Butterworth, Wm. Alvord, Commissioners, appointed by Governor Booth, April twenty-second.

1875—Louis McLane, elected Commissioner, June twenty-ninth, vice Butterworth, deceased.

1876—W. B. Pritchard, elected Superintendent.

1878—T. B. Mortee, elected Secretary, January second. Eugene L. Sullivan, President, Wm. Alvord, Louis McLane, reappointed May first, as Commissioners. Oliver Eldridge, elected Commissioner, November seventh, vice E. L. Sullivan, resigned. Same date Louis McLane became President of the Commission.

1881—F. P. Hennessey, elected Secretary, January eleventh. F. P. Hennessey, appointed Acting Superintendent of Parks, May first, vice Pritchard, resigned; E. H. Sheldon, elected Secretary in July.

1882—Wm. Alvord, President, Frank M. Pixley, John Rosenfeld, appointed Commissioners. Frank M. Pixley, elected President in July. Leland Stanford, elected Commissioner, vice Wm. Alvord. Joseph L. Howell, elected Secretary in July. R. S. Smith, elected Secretary in September.

1883—Valence V. Bloch, elected Secretary in June, vice Smith, resigned. General Irwin McDowell, appointed Commissioner, vice Leland Stanford, resigned.

1884—Alfred Poett, elected Engineer in September.

1885—Charles Goodall, appointed Commissioner, vice Irwin McDowell, resigned.

1886—R. P. Hammond, Jr., President, W. H. Dimond, Joseph Austin, appointed Commissioners.

1887—John McLaren, elected Superintendent.

1889—W. W. Stow, appointed Commissioner in September, vice W. H. Dimond.

1890—W. W. Stow, elected President, May twenty-eighth, vice Hammond, resigned.

## REPORT OF COMMISSIONERS.

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### GENERAL REMARKS.

Public parks as lungs for great cities, places for recreation, for rest, to study the beautiful and cultivate the taste, notwithstanding their great cost, have met and refuted every objection, and are counted to-day as indispensable agents in modern civilization. No city is fully equipped without some grounds for public resort, and almost every village or hamlet inhabited by enlightened races has some free spot which all have the right to enjoy.

Man, in his primitive stages, roamed the groves and fields, the parks laid out by the hand of nature. As he progressed, and the rights of property were recognized, parks, as preserves for deer and other animals, were maintained as appendages to the homes of the wealthy.

Picturesque houses and lodges arose among the natural scenery in keeping with it, and here, aided by the beautiful and harmonious surroundings, men drew some of their best inspirations, enobled themselves with deeds of heroic patriotism, and gave impetus to the progress of the world.

As population increased, forest fires and the wants of man decreased the area of trees; a long pastoral stage was destructive also by browsing of animals. Settled life, the demands of increasing population for food, the building of great cities, decreased the acreage of woodland and swept away with too often vandal hands the most beautiful alternating scenery of forest and wildwood, valley and glen, until a longing for nature in her primitive conditions—perhaps a sense transmitted by heredity from some ancestral hunter whose soul had absorbed the imperishable delights of forest shades and purling brooks—inspired the preservation of remnants of the natural scenery left, or led to the construction of artificial woodlands and glades within, or contiguous to, great centers of population. The terraced gardens of Nebuchadnezzar were said to have owed their origin to his nostalgic Medean queen, whose childhood home was in the wild and wooded mountains. The Academia of Athens, where Socrates spoke wisdom to the youth of the city, and Plato made famous, was the artificial production of a son of Miltiades; the creation of a miniature world on a rough and forbidding site, perhaps no better fitted by nature for cultivation than the drifting sand dunes of the park by the Golden Gate.

### UTILITY OF PARKS.

The fact is an unvarying and patent one, that the denser the population the greater the death rate. This fact is emphasized by another, that the rate of deaths is, under fair conditions, higher in large cities than in outlying rural districts, and that, too, when medical intelligence and attendance and trained nurses are at hand in the cities. The ratio of intemperance and crime is also greater in the cities, and in propor-



tion to their crowded, filthy, and unhealthy character. It was found that in a densely packed district in New York the annual death rate was forty-six per thousand, while in the rural districts it did not exceed sixteen. It is estimated that children born in compact metropolitan quarters do not have half the chances to live as children more favorably situated. As the old walls of cities are leveled, and new avenues are opened to the sun and air; as ancient burial grounds are laid out into parks and gardens, and modern sanitary knowledge and measures are extended and applied, a wonderful lowering of mortality rates is apparent. But after all, according to eminent London physicians, but few perfectly healthy children are born in that modern Babel. In greater or less degree unhealthfulness is a concomitant of all cities. They are necessities in the world's progress and economy, and their lesson is a warning to young towns of promise to care for the future as they go along.

The benefits derived from breathing and recreation grounds in cities are so well understood that money is less grudged by taxpayers for the purpose of extending and beautifying them than for almost any other purpose. New York, for instance, expended last year on Central Park, containing eight hundred and forty-three acres, \$1,135,200. The State Legislature also appropriated an additional \$750,000 for completing Central Park and improvements on Riverside and Morningside Parks. An attempt to reduce the area of the outside parks beyond the Harlem River was met by a vigorous protest from the "Citizens' Park Association," composed of many of the most distinguished and wealthy men of the metropolis, although these parks, comprising a total of three thousand eight hundred and forty-three acres, are yet in quite a state of nature, and may call, in a few years, for an unlimited expenditure of money for changes and ornamentation.

The influence of parks in collecting and growing the trees, shrubs, plants, and flowers of other lands, and the animals of other climes, are not to be underestimated. Knowledge and culture are extended by travel, but the great majority have not the means to visit other countries. The bringing together of the fauna and flora of the world so as to be seen by the multitude compensates, in a great degree, for want of travel, and produces the same educational and cultivating influences. Not less is the reflex influences upon rural life and manners. Cities live upon the vitality of the country. In their beautiful, natural, and artistic public grounds the visitor from the country catches inspiration from the surprises of a world in miniature, and carries back with him a refining taste. He procures a tree here and a plant or flower there; he imitates on his own grounds, if possible, some bits of artistic skill he has enjoyed, and produces around his home a thing of beauty which is a joy forever. In this way parks are civilizing in their work and compensatory to the country from which the cities have their life.

<sup>1</sup> The observations of all who have given attention to the subject are of the same tenor, that every city owes to itself, not alone for the physical but for the moral health of its citizens, to maintain beautiful grounds open and inviting to all. All park literature is conclusive on this subject. The young, with characters not yet formed, are attracted to salutary places of resort, and away from the dens of intemperance and vice. An ambition to appear cleanly and respectable in such places is created and stimulated, and daily exemplified in our parks. Where everything



Britton & Roy

THE FERN FOOT PATH.





is beautiful and in order, the rudest boy forgets his jack-knife and his heedless vandalism, and imbibes an interest in the preservation of the harmony of things, that appeals to his awakened soul. In this way is laid the foundation of character where dry precepts fail. The surprises of a park; the alternation of forest and meadow; the opening at intervals of charming vistas; the profusion of plants and flowers here and there in infinite variety, and all in consonance with a refined taste; the happiness of children on the lawns; strains of ennobling music; works of art and the like, all come to the most wayward of our kind as a revelation that there is something better than the abodes of crime and mischief, and are great aids in shaping the future life of the man or woman. Home influence, the kindergarten, the school, and the public park are handmaidens in the formation of character.

## PARKS OF THE WORLD.

A brief comparison of the parks of a few cities of the world will establish the general estimation in which they are held by all civilized nations:

	Population.	Park Acreage.
London.....	3,832,000	22,000
Paris.....	2,270,000	58,000
Berlin.....	1,122,000	5,000
Vienna.....	1,103,000	8,000
Brussels.....	380,000	1,000
Amsterdam.....	350,000	800
Dublin.....	250,000	1,900
New York.....	1,840,000	4,900
Philadelphia.....	975,000	3,000
Chicago.....	725,000	3,000
Brooklyn.....	665,000	900
St. Louis.....	400,000	2,232
Boston.....	400,000	2,000
Baltimore.....	355,000	832
Cincinnati.....	325,000	539
San Francisco.....	325,000	1,181
Washington.....	225,000	1,000

The census to be taken the present year will change the population figures in all the American cities, but the park acreage will remain about the same as given. It will be seen that Paris, which is ranked by many writers as the center of civilization, is better equipped with lungs than any of the cities in the list. Yet the old part of Paris was regarded until late years as abominable for health. The usual death rate formerly was fifty per thousand. The immense improvements for sanitary purposes which have been made in the last fifteen years have reduced the rate to less than one half. Where once were districts of solid buildings with only long and narrow alleys, or few air channels for ventilation, grand avenues have been driven, regardless of expense, through massive walls miles in length, old buildings have been demolished, and public squares laid out and beautified. The city is thus supplied with breathing places where once were compact blocks, the breeding places of filth, immorality, disease, and death. The opening of passages through the city, letting in both sun and air, is telling wonderfully on the health and elevation of its citizens. It is thus that experience and necessity have forced the present generation to repair

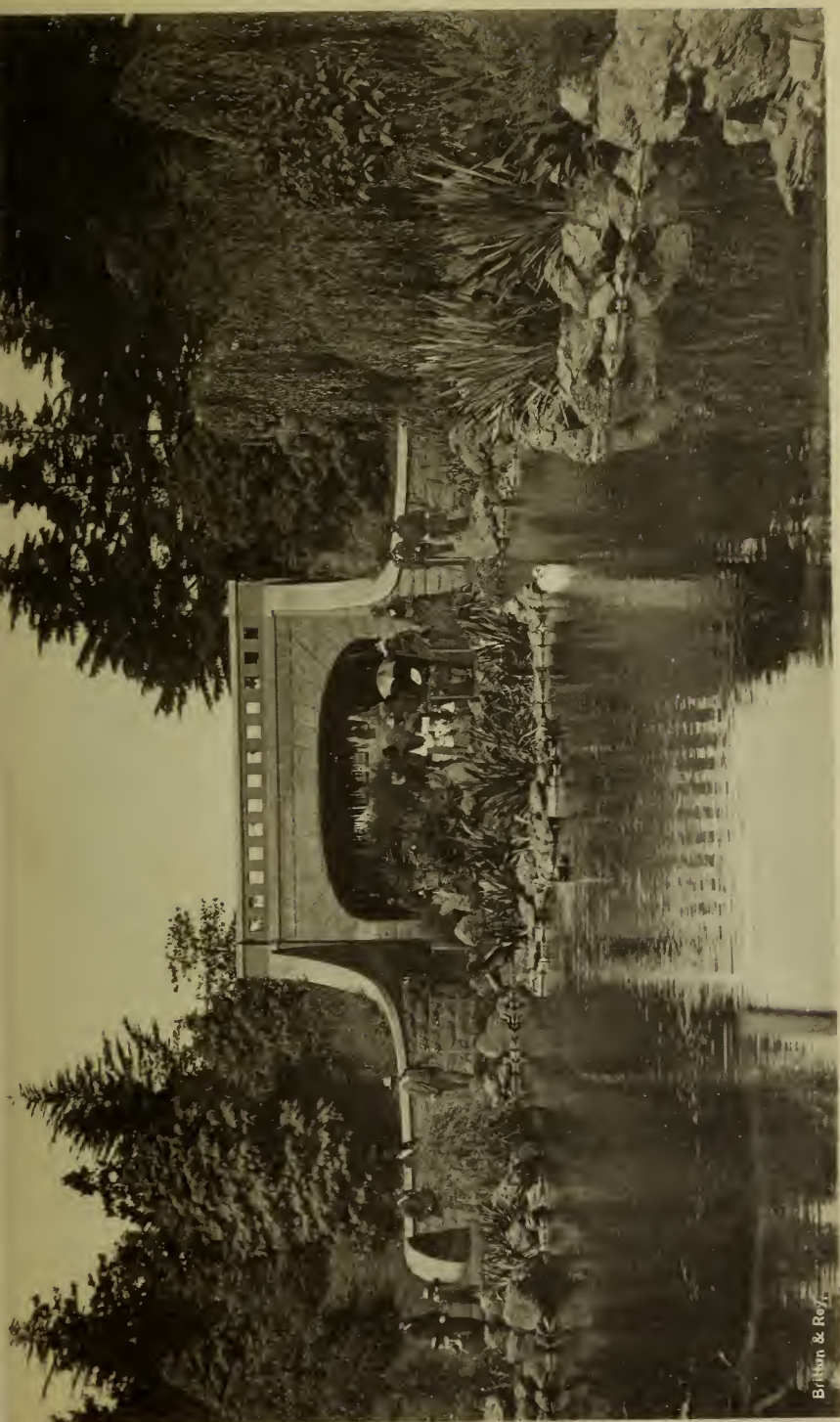
cultivation to tangled wildwood, is infinitely pleasing and impressive. Nature has not been driven to contract its limits by art. Mistakes have been made, it is true, such as not planting the taller variety of trees upon the tops of the hills and the shorter at the bases, so as to increase the contrast and heighten the effect. But remedies will come in time. Most of the parks of the world have been subject to change, as critical taste has demanded and adaptability demonstrated. Another mistake was that of commencing the work of reclamation of the sand dunes at the eastern end, instead of at the source of supply along the ocean beach; and yet lack of funds made this advisable, and to bring recreation grounds near the people. But the sand drifts have been laid at last, and forest trees are springing up all over the wide waste once deemed irreclaimable.

The great work has been facilitated by planting a sea beach grass from the coasts of Europe, called *Arundo arenaria*, and the wild lupin, indigenous to the country. These, taking root, and staying the sand, the surface is soon prepared to receive other trees, hardy in their nature, to be followed by others as conditions allow, until the whole park is made as beautiful and attractive as its highly improved parts are at present.

Notwithstanding the millions that have been expended on other parks of the world to produce depressions and altitudes, the inequalities of surface without which all ornamentation might be gorgeous but tame, we know of no public grounds that afford from their highest points the variety and grandeur of views that can be had from the hills of Golden Gate Park. They embrace a circle fifty miles in diameter. Old ocean glistens, rolls, and roars along its western marge. The Cliff House, sitting on the declivity of rocks, and Sutro Heights, with its embattlemented walls above, one day we trust to be added to the city's treasury of territory, the Golden Gate, Fort Point, the hills of Marin, dominated by Tamalpais, a sweeping view of inland water, the gateway to the heart of California, Oakland, the hills beyond, grand old Diablo, and the islets of the bay—these are some of the gracious greetings to the eye of the visitor who ascends the hills of our park to take in the objects in the vast expanse. We repeat, no other park in the world can equal its wealth of view and variety. We have no running crystal streams or waterfalls, so helpful in toning the thoughts and nerves, and needful for change, but we can make them, and to produce them will add to the glory and triumph of genius and public spirit of that hopeful civilization whose center on the Pacific must be by the Golden Gate. A people who can make a desert burgeon and blossom can be relied on to add all the accessories refined taste demands.

Unlike Central Park of New York, which is closed during the night, our park is never shut. The entrances are open to visitors day and night, and patrolled by policemen, who see that no depredations are committed and order maintained. And it is a gratifying fact to record that vandalism and pilferings are rare. There is little on this score to complain of in comparison with the reports from the other parks of the world. It speaks well for the character of our people, and is an encouragement to taxpayers that their efforts are not to be wasted by destructive tendencies.

It is to be observed that our cosmopolitan population demands different enjoyments. The difficulty to please all is increased the more the



ALVORD LAKELET.





homogeneity of the people is broken. The aim has been to afford such pleasures in the park as are possible, and not objectionable to any. It is gratifying to report that little objection is made to the established order, the rational elements sustaining the judgment of the park management.

#### HISTORY.

The project of providing for San Francisco a grand park was discussed and urged by the public press of the city and some of its far-seeing citizens, a considerable time before legislative steps were taken to provide the lands for it. The city having been secured in its title to what were called the "outside lands," consisting of four square leagues, and the limits of the city extended to the shore of the ocean on the west, and the boundaries of San Mateo County on the south, measures were taken by the municipality and the Legislature to extinguish the claims of persons holding possession of outside lands, and to free from all incumbrances such parts of the territory of the city as might be designated for public purposes.

By an order of the Board of Supervisors made in 1868, a survey was made of all that part of the area of the city lying west of Devisadero Street, a map made, and selections of reservations made thereon for public use. The order provided that the cost of extinguishing private titles on the reserved parts should be assessed on the balance of the "outside" lands. This order of the Board of Supervisors was afterwards confirmed by an Act of the State Legislature.

The lands set apart by the Supervisors included Golden Gate Park, and the avenue to it, Buena Vista Park, Mountain Lake Park, and the Great Highway. The locations of these three parks are well understood. The Great Highway is the strip of land lying west of a line easterly not less than two hundred feet from ordinary high water mark of the Pacific Ocean, and along the entire ocean front of the city, and is to be occupied by the boulevard to be.

Congress in 1886 ceded to the City of San Francisco the Seal Rocks, which, by an order of the Board of Supervisors, the next year became a part of the public reservations. The Point Lobos road the same year became a part of the same. The first Park Commission was created by the Legislature and their qualifications and duties defined in 1870. Various modifications of the law were made from time to time, but the experience demonstrated that the Commission were too restrictive in their action. As the park grew and called for broader management, it was found necessary to give greater scope and power to the Commissioners.

The Act to accomplish this passed both Houses of the State Legislature without a dissenting voice, in February, 1889, and is the authority under which the present Commissioners act. Similar powers were granted the Commissioners at first, but they were shorn of them by subsequent restrictive Acts, until a restoration came by the Act aforesaid.

The Commissioners are now vested with general authority in park management.

#### OBJECTS OF INTEREST.

*The Lake.*—Entering the park, at the termination of Haight Street, the discovery is soon made of a miniature lake in a depression to the left. It is ragged and irregular in outline, with rugged promontories

and islands, the shores rocky and walled, the sloping banks grassed and planted with shrubbery, trees, and flowers, and the whole surrounded by a wire fence with divisions to secure and keep apart the swans, ducks, and other aquatic birds, that have become acclimated and seem to be content with their new home. Two varieties of swans and six of ducks enjoy themselves on the premises.

*The Bridge.*—Hard by the lake, and over the walk to the Children's Playground, we meet a bridge of solid stone, the archway hung with artificial stalactites.

From the lake, through the arch, is caught a charming vista of the Children's Playground beyond. Over the bridge above passes one of the finest drives in the park, along its southern border.

*The Children's Quarters.*—Passing the baseball grounds, one of the most useful and interesting objects in the park is encountered, that of the building and playgrounds for the children. The site is well selected, and the building, the result of a donation of \$50,000 from the late Senator Sharon, is a fine two-story building, occupying a site slightly elevated above the surrounding grounds. The lawn is the largest piece of green sward in the whole park. Roses, plants, and little clumps of shrubbery are scattered over the lawn, relieving it of monotony. The whole is sheltered from the prevailing winds by rises of ground surmounted and clothed with oaks, pines, shrubbery, plants, and flowers.

Altogether it is a charming spot, and probably the most complete and extensive provision for children to be found in any park in the world.

The house is of a gray stone, with a slate roof. The lower story is used as a play-room in case of storms, or for those who prefer indoors; the second story is a restaurant, where lunches are provided for children and their attendants for little more than cost. Broad verandas, for the accommodation of people, are features of the building, which have to be seen to be appreciated.

On all fine days (and they are many during our long and dry seasons) the children can be seen in great glee enjoying the swings, springboards, merry-go-rounds, riding donkeys, driving goats, and profiting by the various devices provided for giving them pleasure. The visitor who desires to see a scene of joy and animation has but to betake himself to the children's grounds on a Saturday afternoon or Sunday. Young life in its gala dress and hey-day of delight, cannot be seen to greater advantage. To add to the attractions of the locality, not far away the boys are exhilarated in the game of baseball. If our millionaire citizens would frequent these grounds on Saturdays and Sundays, and witness the great pleasures enjoyed by the little ones, and their admiring parents, they would add to their own happiness by providing the means for enlarged quarters and increased diversions.

*The Music Grounds,* since their enlargement, have a seating capacity for six thousand persons. They are protected on the south and west by terraced ridges covered by trees and shrubbery and fronted with plants and flowers. The stand for the musicians is one of the features of the park. It is a semi-circular concave structure to catch and give back the sound, it being difficult to secure volume of sound in open space.

This artificial sounding board, and the walls of foliage in the rear,



Britton & Roy

THE SHARON HOUSE-CHILDREN'S QUARTERS.







Britton & Roy,

CHILDREN'S PLAYGROUND.

(SHARON QUARTERS.)

*The Key Monument*, in the rear of the auditorium of the music stand, the cost of which came from a bequest of James Lick, is much visited and studied. The work consists of a base, on which rest Corinthian columns at the corners supporting a dome above an open space, in which in a sitting position is the statue of the poet in bronze, with pencil in hand, and in a thoughtful mood. The whole monument is crowned by a bronze figure of Liberty, with staff and banner. Four bronze eagles with expanded wings occupy the corners of the frieze, with marble heads of buffaloes between. Three steps lead up to the square and perpendicular base, which is paneled with large slabs, on which are inscribed the words of the "Star Spangled Banner." The base is entirely of marble. This is probably the best effort at statuary in the park.

Golden Gate Park has little of art in form, but more will come in time. Central Park of New York has about thirty pieces, besides medallions, sketches, etc. It is to be hoped, however, that the passion may never come to make our park a pantheon, remembering that art is subject to criticism, but vegetation pleases all.

*The Conservatory* is the finest and most pleasing structure in the whole park. It needs but to be seen to be admired. A look at the cut will convey a better idea of its form and proportions than a description. It was destroyed by fire in 1882, and rebuilt the next year by a munificent donation of the late Charles Crocker. The whole is of wood and glass, two hundred and fifty feet in length, and an average breadth of seventy-five feet.

The vestibule in the middle, facing the south, is furnished with fountains and seats for visitors. From that the grand central dome is entered, to find a fountain throwing water to the height of thirty feet. Here are choice specimens of vegetable life from New Zealand, Australia, China, Japan, the Cape of Good Hope, Isle of Bourbon, in fact, from all the torrid world. The heat and smell is that of the burning zone. The thermometer may not show a great extreme, but the hygrometrical condition of the atmosphere makes it oppressive.

Here are everywhere suggestions of the tropics. Bananas in fruit twenty-five feet high, rank plants and creeping vines in every conceivable variety. There are ponds in which the *Victoria regia* is in bloom. All the delicate and gorgeous flowers of softer skies surfeit the eye at every step. There are plants whose leaves rival the flowers in their variety and coloring. Here are rocky ponds with pretty fish, and islets on which plants and vines find homes as congenial as their native habitat. A reference to the catalogue can only, without a visit, give the wealth of tropical vegetation the Conservatory contains.

*The Deer Glen*.—Away to the west of the music stand, across the intervening ridge, is a long depression, some thirty feet in depth. Nature seemed to shape it for a lake, but failed to provide the water. The west end is covered with a dense mass of native oaks, and a part of the steep slopes are spotted with clumps of trees. The wildness of the spot affording coverts for deer, open hillsides, and water in the lowest places, suggested the utilization of the place for the purpose. Here, surrounded by a strong fence nine feet high, the upper half of large wire six inches apart, are placed twenty deer of four varieties, and a



CONSERVATORY.



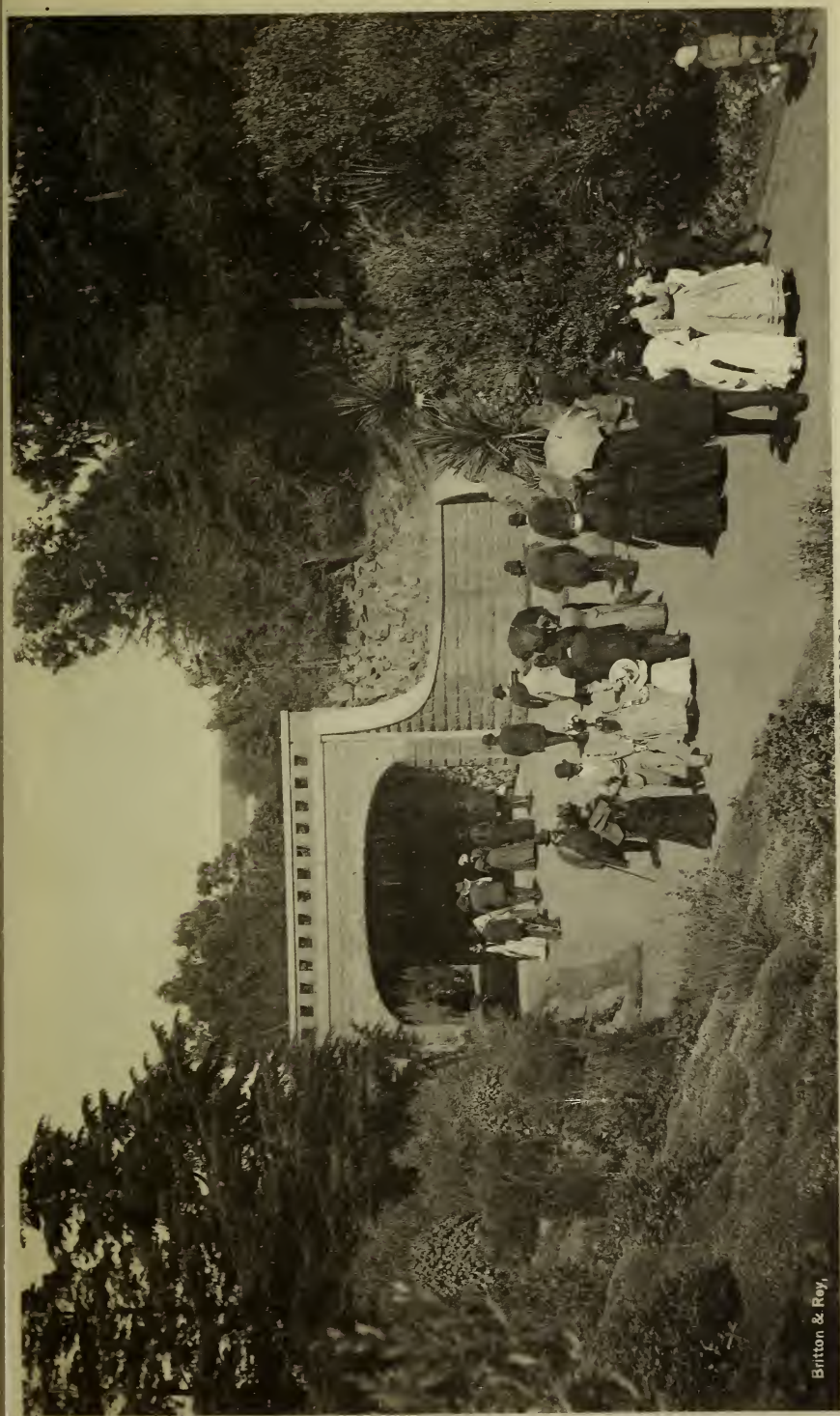
wild strawberries now in fruit all over its sides), about one hundred and ten feet from the summit. The plan is briefly this: To force the water from the waterworks in the valley, not far away, to the crest of the hill four hundred and twelve feet above, and into a pool on the summit. From thence the overflow will descend in a cascade to the present reservoir about fifty feet. Another cascade about fifty-five feet in height will discharge the overflow of the reservoir, which holds about a million gallons, to the contemplated lake, which will have an altitude of three hundred feet, affording ample pressure for distributing pipes over all the park area. The new sheet of water it is proposed shall hold at least two million gallons, and be about three feet deep. In this way the great defect of Golden Gate Park, that of the want of waterfalls, running streams, and lakes, is to be remedied. The supply of water in the wells, after a test, is undoubtedly ample, and it is only a question of a little extra expense in raising the water, to add to the grounds the feature of which they stand most in need. With a pool on the summit of Strawberry Hill, walks around it, and the top of the hill covered with tall trees to increase in effect the elevation, this part of the park must be attractive and popular. By the plan proposed, the water is made in sheets, streams, and falls, to please the æsthetic, and afterwards distributed for irrigation, thus to increase the area of verdure and beauty. It is believed this plan will be approved by every person of taste who gives it his attention. The absence of water in our park is the one object most missed by strangers.

*A Bridge* for pedestrians, to connect the Conservatory with the music grounds, is quite necessary. For women and children to cross the main driveway on Saturdays and Sundays is quite hazardous. It is proposed to throw a light and graceful structure of iron or steel across the drive and relieve the difficulty. By careful study a structure may be devised which shall be as ornamental as useful.

*Young Men's Recreation Grounds.*—The Commissioners have had surveyed and staked, grounds where young men of fifteen years and over can find recreation. The plot lies immediately west of the Children's Quarters and opposite to Seventh Avenue. Here it is proposed to provide baseball grounds and a bicycle track around the whole three fourths of a mile in length. In this connection it is well to suggest that some spot may soon be chosen for games for young ladies.

*A Fountain.*—The auditorium of the old music stand near the Conservatory presents a vacant space without an apparent use. In winter the spot is frequently covered with water. The surface of clay retains the rainfall, which is increased by the drainage of the surrounding slopes. It needs to be drained, but to accomplish the purpose a tunnel will have to be cut through the quarry to Deer Glen, where the water can be utilized. As the park is without an open fountain, it is proposed to construct a large and massive and showy fountain one hundred and fifty feet in diameter to occupy the old music auditorium, furnished with fish, aquatic plants, and the like. The waste water will supply the deer with the fresh article they need in the heat and drought of summer.

*Enlargement of Entrance.*—The increasing number of carriages demands the widening of the main park entrance. The same difficulty



Britton & Roy,

THE BRIDGE.





occurred at the entrance of Central Park, New York, a few years since. It is not always possible to foresee the wants of the public. The change required is easy of accomplishment and will call for no large sum of money. Some trees and shrubbery will have to be sacrificed for roadway and paths, but there is space enough left on which substitutions can be made without impairing appearances or shocking the feelings of old habitués of the grounds. At any cost, however, the enlargement will soon be imperative.

*A New Distributing Reservoir* is projected, to be placed on the hill at the Hayes-Street entrance. This improvement will allow the catchment of water during the night and its easy distribution over the front part of the park by day, instead of making demands upon the main pipes from a distance, when they are engaged in supplying the western part of the grounds.

*The New Drive.*—The late rainy season was the most extraordinary one, for unsettled weather, ever known, or, certainly, the most inclement since the advent of Americans. In consequence hundreds of laboring men were precluded from gaining their livelihood in the open air. Our public spirited and generous fellow citizens, fully appreciating the condition of affairs, came forward and subscribed upwards of \$30,000 to give employment in the park to the needy. The credit of taking the initiative in this humane movement must be given to Archbishop Riordan, who subscribed \$1,000 for a starter. The popular movement began in a mass meeting at which a committee of two hundred was appointed to canvass for donations. In a few days the large sum was ready for use, and an Executive Committee, consisting of Levi Strauss, Father Montgomery, M. P. Jones, C. B. Stone, David Bush, F. S. Wensinger, Albert Gallatin, J. J. Haley, with William M. Bunker at its head, began the gratuitous work of putting meritorious laborers on the construction of a new drive in Golden Gate Park. The work began on March eleventh, and without any unnecessary delay. Over four hundred men were on the ground the first day, and the force was increased daily as fast as the active and efficient Superintendent, Mr. McLaren, could block out the work, until more than eleven hundred were employed. The road created is of a substantial character, and a credit to the management and the liberality of our citizens. It adds a needed and important feature to the park. It is a fact worthy of comment, that there was the utmost harmony among the multitude thrown together on this public work, a proof that the money subscribed was worthily distributed.

The new drive springs out of the south drive, a few hundred feet from the rocky cut on the main road, runs along the crest of a ridge westerly, parallels the speed track towards the ocean, and finally turns, after running two miles, into the main road. The new drive is sixty feet in width, has a light grade, and an average elevation above the shore of about two hundred feet. The whole is being handsomely bordered, and is already one of the attractions of the park.

The large sum of money contributed by our citizens was disbursed by a committee appointed by the contributors, and in little more than a month. The spirit manifested by the committee, sometimes attending in the rain to the work, and paying off the men, was above all praise. The names and the deeds of those who came forward on this occasion

will live in the archives of the Park Commission. They have done a humane and noble work.

The new drive was not, however, brought to a finish. About two miles of main pipe, besides branch distributing pipes, are required to supply the road and its sides with water, to lay the dust and for irrigation. The total cost to complete the work is estimated at about \$7,500.

*Path Connections.*—It is desirable that a bridle path, to connect the old with the new bridle path around the north side of Strawberry Hill, should be constructed. The distance is about one fourth of a mile, and, also, the foot path or walk from the westerly end of the speed track should be extended to the ocean. These improvements it is proposed to complete in the near future.

*The Great Boulevard* along the ocean shore merits and has received attention. A great work has been done on it since our last report. During the last winter, so severe upon the laboring classes, two hundred extra laborers at a time were employed in grading the boulevard, and were paid out of the park funds. Twenty-six hundred feet along the ocean front of the park were graded and planted with trees. A fence to protect the trees from the ocean winds has been built the entire distance, and on the ocean side of the beach grass planted a hundred feet in width to stay the drifting sands. The park is now safe against any further supply of sand from the beach.

*The Great Highway* is planned to be two hundred feet wide, extending from the Cliff House Rocks south a distance of three miles. It is to consist of a driveway eighty feet wide, a walk twenty feet wide, with a space of fifteen feet wide between the drive and walk. The whole is to be lined with trees. Raised but a few feet above high tide, and commanding a magnificent prospect of ocean, it will be, when completed, one of the noted boulevards of the globe. The work so far done on it has been confined to the half mile of sea frontage of the park. To complete the balance of the road and its concomitants calls for the generosity of some wealthy gentleman ready to distinguish himself by doing a proper service to his less fortunate fellow citizens.

*The Trees* again require to be thinned. A considerable work of this kind was last year expended among them; but they need more attention. To preserve the natural symmetry of trees, and to save some in their proper places, it is better to thin than allow the desirable ones to suffer by the choking process. Timely assistance of nature is the rule of the culturist. Forests may be said to be gregarious, or social in their habits. Trees like association. They do not like to live alone. The shade and protection of one invites the growth of another and of a different species. Some are foster-children of others. In the mining region of the Sierras young forests spring up to take the places of those destroyed. The trees come up as if by magic, and as thickly as grain in a well sown field. In a few years large numbers succumb to the superior vigor of others, and the thinning process by the natural method goes on until the comparatively few left have room for complete development. Nature's way must be copied in the production of our park forestry. We must plant thickly and numerously; but we must not wait



to discover what the natural destruction would be, lest those trees that survive shall be out of shape and out of place to produce the most pleasing masses of foliage. In some parts of the park thinning should have commenced earlier; but we have to learn by stages. Constant study and good judgment are always in need when parks are created for generations to come. In the growth of forests the most care is to be taken. Other adjuncts to public grounds are easily changed or replaced. Trees are for centuries.

*The Arboretum.*—As in our last report, we renew the hope that with the coöperation of the State Board of Forestry Commissioners to establish on park grounds an arboretum, and on a scale to test the adaptability of our soil and climate to the acclimation and growth of many foreign varieties, and also to make a specialty of trees indigenous to the Pacific Coast. There is a space of about twenty acres north of the pumping works, having a variety of soil and exposure, sloping, dry, and sunny hillsides, sheltered spots, and rich, low, or marshy land, which seems to be a site well adapted for an arboretum. A large water pipe runs through the grounds already, and near the source of supply. At no very heavy expense the land could be prepared. An extensive collection of trees would be of service to the student, and might be made of practical importance in giving variety to the park, as well as educational in its effects, in teaching the people of the State what trees to cultivate besides the pines and oaks indigenous and often too common.

*Police.*—With the increased number and length of roads, bridle paths, and walks, comes an increased demand for police force to insure proper order. It is pleasant to report that visitors seem to appreciate the liberties enjoyed in the park, and are little disposed to overstep the rules established for the park government. The small mounted force is kept well in motion over so large a space. Thanks are due to the Chief of Police and Police Commissioners for the efficient help in maintaining order on Saturdays and Sundays when the crowds are greatest.

#### THE PRESIDIO.

The Presidio is a Government reserve for military purposes, and properly does not come within the scope of our report. But as one of the breathing places of the city, by the kind and liberal action of officers in command, and as a possible addition to the park territory of the city in the future, it is worthy of a passing notice.

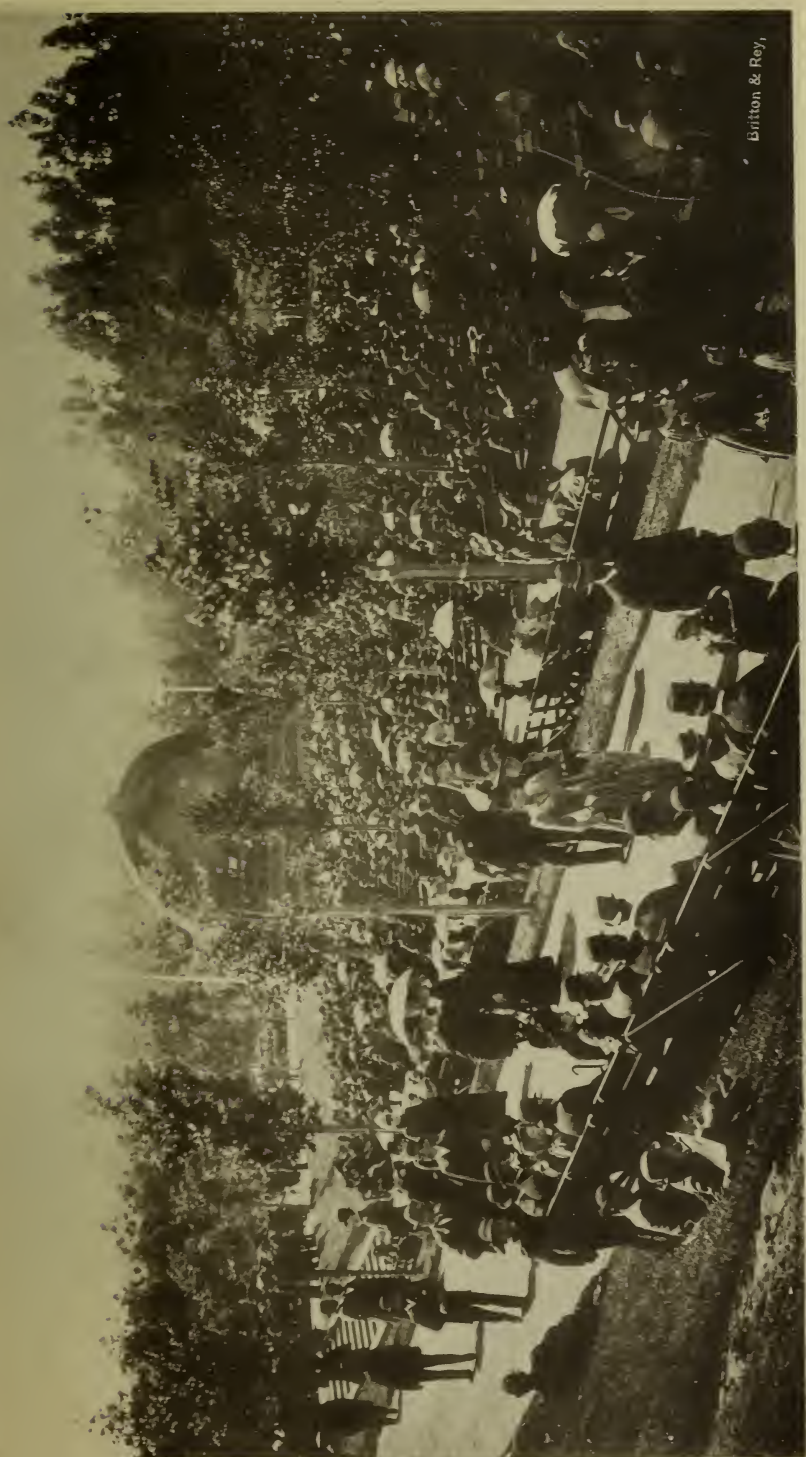
The reservation consists of about fourteen hundred acres of land, as well adapted for recreation grounds as probably any section of the peninsula. The soil is good, there is every variety of slope and exposure, lofty headlands overlooking the Golden Gate, the bay, and the shores and hills beyond, affording some of the grandest views of cliffs with billows dashing at their base. Little valleys lie embayed among grassy mountain sides, sandy beaches appear, up which the blue waves steal with a silver ripple, and then there is the little village of the Presidio, with its parade ground and its garden of flowers. General McDowell, a late Commander, and once one of our Park Commissioners, was a lover of the beautiful, and made great improvements in the way of tree planting, and building of drives to grand and picturesque scenery. A long

and winding avenue from the old road takes the visitor over the hills by the way of Fort Point, and on in the direction of the Marine Hospital and the Cliff House several miles, opening to view all the beauties of the reservation. It has been appropriately named McDowell Avenue, from the General, who perfected and brought the drive to its present finish. The possibilities of the reservation are fully seen in passing over McDowell Avenue. Thousands of trees of numerous varieties have been planted in many parts of the grounds, and they seem to thrive wonderfully.

In the order and rows in which they are set, the military spirit is recognized. It is, however, to be observed that some of the late plantations show clumps and irregularities in conformity with taste as observed in landscape gardening.

But the visitor will be delighted on a drive through the Presidio with the pleasing variations from the style of other public grounds.

The work is now going on of property owners along Lombard Street, connecting that street with Van Ness Avenue and Black Point, and forming an avenue to the Presidio. The Government is understood to assist in the enterprise. In this manner a good drive will be opened to the reservation, and on the McDowell Avenue to its western terminus. By extending the drive by Point Lobos Creek, near the Spring Valley dam, and on to Twenty-fourth Avenue, a connection may be made with the drives of Golden Gate Park, a little to the west of Strawberry Hill, or by taking the Point Lobos road via the Cliff House, the park may be entered from the west. This continuation would afford a new, easy, and delightful drive, taking in and viewing all the large public grounds within the city limits. At present, the people of the city are obliged to drive to the western part of the Presidio reservation and return. The reservation is open at all times to the public, and is, for all practical purposes, one of the recreation places of the city. Your Commissioners have favored the gift of trees, shrubbery, plants, etc., from the park grounds, in a spirit of reciprocity for the general public use for which the grounds are tendered by the various officers who have, from time to time, been in charge.



Britton & Rey,

MUSIC AUDITORIUM.







KEY MONUMENT AND MUSIC CONCOURSE.



## REPORT OF THE SUPERINTENDENT.

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GOLDEN GATE PARK, June 30, 1890.

*To the honorable the Board of Park Commissioners:*

GENTLEMEN: I herewith submit my report for the year ending with the above date, with a brief statement of the condition of the grounds of the Golden Gate Park and the changes and improvements made therein during the past year.

Improving the north side of the avenue was one of the first important changes made. The work was commenced by thinning and clearing out all the weak, deformed, and leaning trees; then the old leaky sheet-iron water pipe that caused so much trouble and delay the previous season, was taken out and replaced with new pipe of the best quality, four inches in diameter. After the pipe laying was finished, a heavy coating of loam and compost was spread over the entire surface of the ground, and spaded in. This heavy piece of work was rendered necessary by the thick growth of pine and gum trees exhausting the original soil. Great care was taken in thinning the trees, to preserve the best trees for permanent growth. Handsome specimens of trees and shrubs of many different species were planted in groups and masses, rather than by putting a few of each kind in each block, believing that a finer effect is attained by planting in masses of one species with its varieties, rather than by mixing too many in one group. For instance, the lower block is planted entirely with the varieties of fir and spruce, the next with magnolia, laurel, and rubber trees; one entirely with palms, bamboos, grass, etc., and so on, each block having a distinct character rather than a continuation of mixtures. After finishing the tree and shrub planting, a verge of grass sod was laid along the entire length of the avenue, and along the back outline of the lawn space; the whole was leveled and seeded with Kentucky blue grass. The walk north of the avenue was reconstructed, remacadamized, and bordered with different kinds of plants—one with violets, another with periwinkle, another with mahonia, and so on. Along the fences north and south of the avenue, a row of acacia has been set out, making a hedge over one and a half miles in length. This hedge is intended to be kept trimmed on the street side and allowed to grow freely on the park side, so as to present a more natural and irregular outline towards the drive, and hide the ugly wooden fence so conspicuous at present.

### IMPROVEMENT OF THE GREAT HIGHWAY.

About the beginning of February work was commenced on the grading of the boulevard along the Great Highway. It has been graded to an average width of one hundred and eighty feet, and for the entire width of the park fronting the ocean, a distance of two thousand six hundred feet. A shelter fence was then constructed by putting in fence posts,

connected with rails, on which one by three-inch pickets were nailed. This fence is ten feet in height, and the pickets are four inches apart. Sixty-five feet on the east side has been thickly planted with trees, next to which eighty feet is left for a drive, then a belt of evergreens is planted, then twenty feet for a footpath; and between the walk and the shelter fence, acacia, cypress, and leptospermum have been planted thickly, so as to get up a shelter as quickly as possible. Water pipe has been laid the whole length, so that the trees can be irrigated when required. From the foot of the cliff to the four-league line, a distance of nearly three miles, and one hundred feet wide, sea-bent grass has been planted, so as to reclaim the shifting sands and raise the embankment by collecting the sand blown in from the ocean. This grass, if it takes root well, will catch the sand, and, holding it, eventually raise the embankment high enough to continue the construction of this grand drive its entire length.

#### OVERLOOK DRIVE.

This handsome drive was planned, surveyed, laid out, and graded in the short time of five weeks, as many as one thousand one hundred men being employed on the construction of this road at one time. The survey and superintendence was carried out under the direction of your honorable Board. The grading and part of the macadamizing was paid for by the Citizens' Committee appointed for the purpose of relieving the distress amongst unfortunate unemployed. I desire here to thank the members of that committee for the many suggestions given me, and the courtesy shown by them to me at all times during that busy month.

The road commences at the bend immediately west of Strawberry Hill, and runs in a northwesterly direction, cutting through a very fine grove of the *Pinus maritima*, on passing which and gaining the hilltop a magnificent panoramic view is beheld. The great Pacific emerges into view, flanked with the hills of Marin County to the north, with Point Bonita, Sutro Heights, and the Cliff House in the foreground. To the left the hills of San Mateo County and the bold hills of western San Francisco, between which and the ocean are the undulating hillocks forming the western boundary of the park, covered with a fine growth of healthy young pines and acacia, contrasting with the hard, sterile, and forbidding sand dunes north and south, and showing the effect of the skill and perseverance that has converted this barren, sandy desert into a fine piece of forest land. After leaving this high point, where in addition to the fine marine view a peep of the Speed Road can be obtained, with its fast horses vying with each other to get first to the end. The road then leads down amongst a thick growth of pines, where another high point is reached and an excellent view of the Speed Road is seen; then down again to the big bend, where the road suddenly turns to the northward, where it joins the old drive about five hundred yards west of the tank house. This new road is about two miles in length, and when finished will be sixty feet broad. To connect the main drive west of the railroad bridge with the Great Highway it was necessary to lower the grade of the drive four feet at the junction. This was done by taking off the macadam and taking out the surplus sand, using the same macadam to finish the work.

The next improvement effected was the construction of a walk west of the Cut. This walk was rendered necessary by the increased number





Britton & Fox

VIEW OF SPEED ROAD NEAR THE OCEAN



of people who frequent the westerly end of the park on foot, and especially on Sundays. From the crowded condition of the drives by carriages, it was not safe for persons on foot. The intention was to carry this walk to the ocean, but it has only been completed to the hollow west of Broom Point. This walk, instead of running exactly parallel with the drive, leaves it at times, and, winding through the pines, joins the main drive at its northerly bend, again leaving it when the drive bends to the south. Some heavy cuttings had to be made in three or four places, the sand from which was used in filling up to grade off the hollow places along the line. This walk has been graded and graveled for a distance of two thousand five hundred feet and is twelve feet broad.

The main drive from the Cut to Broom Point has been widened about twenty feet. In widening this road care was taken to round off as much as possible the sharper bends, so that people driving can see farther ahead, thereby lessening the chances of accident.

The walk leading from Geary Street to the north ridge road, the walk leading from McAllister Street to the north ridge road, and the walk connecting the Hayes-Street walk with the Conservatory, and also the one leading to the music grounds, have been reconstructed, water pipe and hydrants put in, drains and conductors laid, loam hauled, fine shrubs planted, edgings of grass put down, and otherwise put in fine order, making a proper connection between the improved portions of the park and the entrances at these points.

The walk also connecting the bridge and the Children's Quarters has been constructed during the year, and the border planted with shrubs and flowering plants.

The walk connecting the Children's House with the music stand having, from the increased number of visitors, been found too narrow, has been widened five feet, making it twenty-five feet wide. Even this extraordinary width for a path is sometimes found overcrowded, and should travel continue to increase will necessitate making this walk still wider.

#### POWELL-STREET ENTRANCE.

The grounds in the vicinity of the Powell-Street entrance have taken considerable work. After the grading was finished, a walk was constructed connecting the new waiting-room, built by the Ferries and Cliff House Railroad Company, and the main drive at Sixth Avenue. A branch walk was also graded and graveled leading westward toward Strawberry Hill; trees and shrubs have been planted, water pipe put in, loam hauled, and a verge of grass laid along the walks.

#### DRAINAGE.

Over two thousand five hundred feet of sub-underground drains have been put in during the year, principally at the western end of the park.

#### SPEED ROAD.

The rains of the winter of 1888 having washed out, in many places, deep gashes in the Speed Road, as instructed by your honorable Board, the roadbed was put into condition by filling up the washouts, putting in surface drains, digging trenches, and planting a dividing edge along

the center, building the necessary fences, constructing entrance gates, laying water pipe, putting up goosenecks, etc.

Running along the speed drive at a distance of from five to fifty feet from the south line, a foot path has been graded, the slopes shaped, holes dug, and trees planted along the entire distance. About fifty thousand trees and shrubs of various species are here set out, and doing very well. In a few years they will completely cover the bare sand slopes in that neighborhood.

A walk one and one half miles in length and twelve feet broad has been graded, commencing at a point a little west of the Cut, and running south of the Speed Road, and nearly parallel with it. This will make a very popular walk to the westerly end of the park. The slopes south of this walk vary in width from twenty to fifty feet, and the space between this walk and the Speed Road, which vary in width from five to seventy feet, have been planted with a variety of shrubs and trees, such as the pine, eucalyptus, cypress, willow, ash, redwood, sequoia gigantea, and Japan cedar. Among other shrubs planted were barberries, laurels, acacia, box, leptospermums, and pittosporums.

#### THE NEW STABLE.

The old stable being too small, besides being entirely rotted out, a new stable to accommodate the increased number of horses required has been built. It contains thirty-four single stalls and two box stalls. The floor is made of bituminous rock with drains on each side. The loft is commodious and has storage room for one hundred tons of hay. There are also bins for holding oats, barley, and other feed, with slides and conductors to the feed box below. Another small stable has been put up at the west end of the park, behind the tank house. This is for stabling horses doing work in that district, and to save the animals the two-mile walk to and from their work.

#### THE NEW FORCING HOUSE.

A new forcing house has been constructed during the year. It is ninety-six feet in length with a width of twenty-five feet, and is substantially built of wood and glass, with foundation of brickwork. Hot water pipes heat the structure when required. The water is heated by one of the Hutchin's boilers discarded some years ago. The structure has a handsome appearance and is admirably adapted to the purpose for which it was built.

#### CASINO.

As contemplated a year ago, the Casino has been moved from its former position to the knoll overlooking the main drive, about one hundred and fifty feet south of the old site. The building also has been enlarged and improved by adding an extra story to its height, and by repainting and refurnishing.

The grounds surrounding the new Casino have also been graded, walks laid out, trees and shrubs planted, the slopes shaped, loamed, and seeded, and otherwise improved.



## DRINKING FOUNTAINS.

Several drinking fountains have been procured, and set up in different places within the park.

## MAINTENANCE OF THE PARK.

The general maintenance of the park grounds, drives, walks, and forests, has received due attention. The roads, owing to the excessive rainfall of the past winter, required an extra amount of labor to keep in good repair, especially those on Buena Vista Park and the Point Lobos road. Nearly all of the drives in the Golden Gate Park have been remacadamized, the lawns have been mulched with compost, and the flower beds and borders manured and replanted. The Conservatory has been kept in first class order, and is well filled with choice exotics. The deer herd is in a healthy condition, and now numbers twenty head. A handsome pair of elk has been added to the herd, the gift of Alvinza Hayward, Esq. The peafowls continue to be quite an attraction. The birds are healthy, and seem to be quite at home, going in and out of the inclosure, but always returning to the roosting tree at night.

The children's grounds and the music grounds are all in fair order, and will compare favorably with the best kept private grounds.

As was contemplated a year ago, large quantities of loam and manure have been hauled at every opportunity to form compost for growing trees, shrubs, flowers, and grass. Over two thousand cubic yards of loam and manure have been hauled and mixed together, part of which has been used in tree planting and other improvements.

## NURSERY.

The nursery continues in a very satisfactory condition, as will be seen from the list of trees and plants raised and planted out during the year, and by the appended list of stock on hand.

## THE CONSERVATORY AND OLD MUSIC STAND.

These places have had during the year a thorough overhauling, all broken glass replaced, and two coats of paint given, which not only adds very much to the appearance of these structures, but helps in their preservation.

## FORESTRY.

The older groups, groves, and belts of trees, thinned out during the past few years, are improving, except in a few localities, notably opposite the three flagstaffs. Some will have to be replaced, owing to neglect of timely thinning. Those on the avenue are very much improved, and some of them are developing into handsome specimens. The younger plantations are all in vigorous health, and making splendid growth.

## SUGGESTED IMPROVEMENTS.

*Arboretum.*—I would again call your attention to the advisability of establishing, as soon as possible, an arboretum, where trees from all

countries, and especially trees indigenous to the Pacific Coast, can be grown, compared, and tested as to their adaptability for park work. I suggest that the southerly slope surrounding the pumping works be laid out, stakes put in, holes dug and filled with loam, and from five to ten trees of each species procurable be planted; those in the nursery to be set out during the coming year. Some one should be sent out into the different counties of the State to collect and ship, in the proper season, from twenty-five to one hundred of each species and variety, native of the coast. Even the coast collection would be very interesting, for there is no quarter of this globe richer in variety of arboreal life, and especially cone-bearing trees, than our Pacific Coast. Many, again, could be procured from the East, while others still would have to be procured from foreign countries. Australian trees and shrubs do remarkably well in San Francisco, and Australia is very rich in variety of trees; many hundreds of different species of which are still untried in this country. The Cape of Good Hope also has many kinds of trees that I am sure, judging from the similarity of climate, would thrive, do well, and add greatly to the attractions of the park. It is all very well to have roads and walks, but their only use is to give comfortable walking or driving between objects worthy of inspection; and this proposed collection of the trees of the world would, if established, be a source of pleasure and profit to the park visitor.

*A Lake.*—No question is so hard to answer as the one asked by the visitor, "Where is the lake?" This is an improvement that ought to be taken up at once. It should be made as large as possible, and ought to occupy an elevated position, so that the water can be used in irrigating the lawns, grounds, and roads after passing through the lake. On this lake boats could be kept for hire, which in my opinion would pay for any increased supply of water required for this extra attraction. The place for this lake is the proposed site on the east shoulder of Strawberry Hill.

*Conservatory Valley.*—I would again draw attention to this valley. Even more than ever after the past season is seen the necessity of draining this hollow for nearly six months. The western end of this valley was a mudhole—almost the only driveway, concourse, or walk within the park that was not comfortable walking in two hours after rain. To drain this hollow it will be necessary to tunnel through the hill south of the old band stand into Deer Glen.

*Macadamizing Walk South of Speed Road.*—This is a work that must be attended to early next season, or if not attended to will require to be regraded before being graveled.

*Widening the Avenue Driveway.*—In the near future this drive will have to be widened. This can easily be done by taking up the sod, and the loam from under it, moving the whole back from ten to twenty feet as required, and using the same loam and sod to edge the widened drive. I would also suggest the elongation of the islands, so as to keep the driving into the park north of the island and the driving out on the south side.

*New Drive.*—There is still a very great amount of work required before this fine drive is finished. First, in many places it has not been graded the full width. After the grading is finished it will require macadamizing. Then water pipe will have to be procured and laid. Shrubs and trees must be planted, loam for which has to be hauled a long distance, after which the finishing coat of rock can be spread to complete the work.

*Boulevard.*—All that can be done on this improvement for some years is the putting on of macadam, for which five thousand cubic yards will be required for the foundation, and seven hundred and fifty cubic yards of finish. This will cost about \$7,500.

*Bridges.*—A bridge connecting the music grounds with Main Point, and one connecting Main Point with Conservatory Valley, are a very much required improvement. The latter is getting to be a dangerous place on account of the crowds that pass and repass the drives.

*Recreation Grounds.*—One of the most pressing works is the laying out, grading, and fencing a recreation ground for young men over fifteen years. The large, open meadow on the south side of the park opposite Seventh Avenue is admirably adapted for this use. About ten acres of comparatively level land is included in the meadow. A bicycle track of three quarters of a mile could surround the grounds. A few walks could be laid out, shrubs and trees planted, and the whole made very attractive at very little expense considering the great want it would fill, and the enjoyment it would give to the young men of this city.

Very respectfully submitted.

JOHN McLAREN,  
Superintendent.

<i>Conservatory.</i> —The current cost of the Conservatory, including labor, water, and fuel.....	\$7,642 22
<i>Policing.</i> —The services of the regular park police and extra men .....	7,610 25
<i>Children's Quarters.</i> —Labor, repairs to swings, whirligig, plumbing, etc.....	284 81

*Apportioned Account.*

<i>Nursery.</i> —The entire nursery expense, including labor, material, and new stock .....	\$6,971 60
<i>Stables.</i> —Including hay and grain, horse shoeing, attendance, etc. ....	6,426 54
<i>Water.</i> —All water supplied the park according to monthly bills.....	2,369 19

*Stock and Miscellaneous Account.*

<i>Stock.</i> —New live and rolling stock, etc., tools, implements, watering and other apparatus .....	\$6,140 10
<i>Miscellaneous.</i> —A number of items of current expense not chargeable under either of the foregoing heads—printing ordinances, reports, demands, office expenditures, telephone, general expenditures, and freight.....	2,169 21

## DRIVES AND WALKS CONSTRUCTED DURING THE YEAR 1889-90.

	Length.	Width.
Drives constructed .....	6,500 feet.	60 feet.
Drives widened .....	2,400 feet.	20 feet.
Walks constructed .....	3,700 feet.	12 feet.
Walks constructed .....	400 feet.	20 feet.
Walks graded but not yet macadamized .....	6,500 feet.	12 feet.
Walks reconstructed and improved by edging with lawn and shrubbery, regrading, etc. ....	6,200 feet.	12 feet.

## THE LENGTH AND AREA OF DRIVES, CONCOURSES, BRIDLE ROADS, AND WALKS WITHIN THE PARK.

	Length.	Area.
Drives .....	16½ miles.	118½ acres.
Concourses .....		7½ acres.
Bridle roads .....	2½ miles.	4½ acres.
Walks .....	14 miles.	20 acres.

Superficial area of grounds, including lawns, flower beds, shrubbery, drives, and walks.....	323½ acres.
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## WATER PIPE LAID DURING YEAR 1889-90.

On hand at beginning of year, and laid during year:		
3-inch.....	500 feet.	
4-inch.....	4,500 feet.	
8-inch.....	1,000 feet.	
		6,000 feet.
Procured and laid this year:		
¾-inch.....	108 feet.	
1-inch.....	511 feet.	
1½-inch.....	1,870 feet.	
1½-inch.....	1,770 feet.	
2-inch.....	4,405 feet.	
3-inch.....	3,531 feet.	
4-inch.....	3,255 feet.	
		15,450 feet.
Total amount of water pipe laid during year.....		21,450 feet.

## LIST OF DONATIONS TO THE PARK DURING YEAR 1889-90.

A. Hayward, Esq.....	Two elk.
Jno. L. Eckley .....	One deer.
Jas. McNab .....	One deer.
W. W. Foote.....	One deer.
Geo. Robinson, Esq.....	One deer.





PHEASANTRY.



Captain Pitts, Steamship "Acapulco" .....	One deer.
Miss Sallie Catlow .....	One deer.
John Boggs .....	Ten peafowls.
Captain Hooper, United States Steamer "Corwin" .....	One pair of Golden pheasants.
Mrs. P. T. Barclay .....	One pair of Japanese pheasants.
Messrs. Jackman & Eiserbies, Port Townsend .....	One pair of Silver pheasants.
H. Williams .....	One swan.
J. G. Kettle .....	One kangaroo.
Hon. F. McCoppin .....	Package of Australian tree seeds.
Hon. L. Mizner .....	Collection of coffee plants.
Captain McAllister .....	Collection of tree ferns.
Jas. Harrold, Sydney .....	Collection of Australian tree seeds.
W. Greer Harrison .....	New Zealand ferns.
Wm. S. Lyon .....	Package of seeds.
Mr. Turbull .....	Collection of shrubs.
Jesse Penton .....	Collection of different trees.
T. H. Douglass, Palo Alto .....	One box of plants.
C. G. Bass .....	Collection of trees.
R. G. Sneath .....	One box of variegated aloes.
F. A. Bishop .....	One box of Australian roots (Rock Silly).
A. P. Dryden, Steamship "Alameda" .....	Collection of ferns.
W. F. Whittier .....	One Araucaria imbricata (monkey tree).
Chas. F. Eaton .....	One box of assorted plants.
Wm. Alvord .....	Fifty-two copies of the "Gardener's Chronicle."

All of which is respectfully submitted.

V. V. BLOCH,  
Secretary.

## TREES, SHRUBS, AND PLANTS.

### TREES AND SHRUBS PLANTED IN PARK DURING YEAR 1889-90.

There have been one hundred and sixty-seven thousand three hundred and sixty-four trees and shrubs planted in the park during the past fiscal year, the following being the classification:

Abies Douglasii .....	33
Abies excelsa .....	3
Abies Menziesii .....	30
Abies Mertensiana .....	28
Abutilon; various .....	445
Abutilon Vexillarium variegatum .....	60
Acacia covenae .....	2
Acacia cultriformis .....	12
Acacia dealbata .....	59
Acacia decurrens .....	3
Acacia fragrans .....	2,664
Acacia latifolia .....	24,300
Acacia linearis .....	32
Acacia lophantha .....	19,100
Acacia melanoxylon .....	10,337
Acacia pycnantha .....	1
Acacia Saligna .....	10
Acacia verticillata .....	2,014
Acer rubrum .....	2
Achania malvaviscus .....	220
Æsculus Californica .....	41
Ailanthus glandulosa .....	34
Aloysia citriodora .....	12
Amygdalus communis fl. pl. ....	12
Aphelandra aurantiaca .....	50
Araucaria excelsa .....	2
Arbutus Menziesii .....	3
Arbutus Unedo .....	2
Artemesia .....	100
Azalea occidentalis .....	25
Berberis communis .....	750
Berberis communis, var. purpurea ..	12
Berberis Darwinii .....	18
Berberis glumacea .....	12
Betula alba .....	5
Betula lenta .....	25
Betula papyrifera .....	4
Bocconia Japonica .....	36
Bouvardia .....	37
Bupleurum fruticosum .....	18
Buxus sempervirens .....	217
Calistachys lanceolata .....	4
Cassia floribunda .....	1
Cassia corymbosa .....	260
Calothamnus purpurea .....	18
Calothamnus sanguinea .....	18
Casuarina suberosa .....	40
Catalpa speciosa .....	11
Ceanothus Africanus .....	117
Ceanothus Fontanesiana .....	1
Ceanothus Verrucosus .....	60
Cedrus Atlantica .....	10
Cedrus Deodara .....	3
Cedrus Libani .....	3
Cephalotaxus pedunculata .....	3
Cerasus lauro-cerasus .....	1,200



<i>Cerasus mollis</i> .....	1
<i>Ceratonia siliqua</i> .....	4
<i>Cestrum aurantiacum</i> .....	40
<i>Chionanthus Virginica</i> .....	2
<i>Chorozema ilexifolia</i> .....	12
<i>Cistus ladaniferus</i> .....	500
<i>Cistus Albidus</i> .....	222
<i>Cistus salviafolius</i> .....	24
<i>Citrus aurantiaca</i> .....	10
<i>Citrus trifoliata</i> .....	3
<i>Clianthus puniceus</i> .....	140
<i>Coccoloba platyclada</i> .....	150
<i>Colletia ferox</i> .....	43
<i>Coriaria ruscifolia</i> .....	120
<i>Coriaria myrtifolia</i> .....	100
<i>Coronilla juncea</i> .....	55
<i>Corynocarpus lævigatus</i> .....	1
<i>Cotoneaster buxifolia</i> .....	200
<i>Cratægus oxyacantha</i> , var. <i>rosea</i> .....	6
<i>Cratægus pyracantha</i> .....	130
<i>Cryptomeria elegans</i> .....	2
<i>Cupressus elegans</i> .....	22
<i>Cupressus funebris</i> .....	1
<i>Cupressus Lawsoniana</i> .....	398
<i>Cupressus macrocarpa</i> .....	3,450
<i>Cupressus pyramidalis variegata</i> .....	14
<i>Cytisus candicans</i> .....	75
<i>Cytisus hirsutus</i> .....	50
<i>Cytisus laburnum</i> .....	110
<i>Cytisus nigricans</i> .....	18
<i>Cytisus quercifolia</i> .....	25
<i>Cytisus spinosus</i> .....	130
<i>Darwinia citriodora</i> .....	30
<i>Datura</i> .....	150
<i>Deeringia celosioides</i> .....	804
<i>Deutzia crenata</i> .....	280
<i>Deutzia scabra</i> .....	12
<i>Diosma alba</i> .....	150
<i>Diosma purpurea</i> .....	20
<i>Diospyrus Kaki</i> .....	20
<i>Dracocephalum Canariense</i> .....	200
<i>Echium stricta</i> .....	275
<i>Echium simplex</i> .....	165
<i>Edwardsia microphylla</i> .....	5
<i>Edwardsia myriophylla</i> .....	17
<i>Eleagnus Japonica</i> .....	12
<i>Entelea arborescens</i> .....	62
<i>Erica Mediterranea</i> .....	150
<i>Erica capitata</i> .....	4
<i>Eriobotrys Japonica</i> .....	7
<i>Escallonia floribunda</i> .....	336
<i>Escallonia rosea</i> .....	250
<i>Ethionema cordifolia</i> .....	2
<i>Ethionema grandiflora</i> .....	2
<i>Eucalyptus amygdalina</i> .....	240
<i>Eucalyptus Baileyana</i> .....	4
<i>Eucalyptus citriodora</i> .....	120
<i>Eucalyptus comicular</i> .....	120
<i>Eucalyptus corymbosa</i> .....	10
<i>Eucalyptus eugeneoides</i> .....	300
<i>Eucalyptus fissillis</i> .....	4
<i>Eucalyptus globulus</i> .....	10,000
<i>Eucalyptus goniocalyx</i> .....	1,200
<i>Eucalyptus goniocephala</i> .....	1,320
<i>Eucalyptus Gunnii</i> .....	120
<i>Eucalyptus leucoxydon</i> .....	420
<i>Eucalyptus macroryncha</i> .....	120
<i>Eucalyptus obliqua</i> .....	30
<i>Eucalyptus pauciflora</i> .....	150
<i>Eucalyptus Ribbonii</i> .....	120
<i>Eucalyptus rostrata</i> .....	240
<i>Eugenia myrtifolia</i> .....	42
<i>Euonymus Japonica</i> .....	725
<i>Euonymus Japonica aurea</i> .....	314
<i>Euonymus Japonica aurea</i> ; dwarf .....	200
<i>Eupatorium ageratoides</i> .....	100

## VINES AND TRAILING PLANTS PLANTED IN 1889-90.

There have been eight hundred and seventy-four vines and trailing plants planted in the park during the past fiscal year, the following being the classification:

<i>Cobea scandens</i> .....	12
<i>Clematis</i> ; various .....	24
<i>Ampelopsis</i> Royallii .....	12
<i>Ampelopsis</i> Veitchii .....	18
<i>Dolichos</i> .....	12
<i>Eccremocarpus</i> scaber .....	24
<i>Ipomea</i> ficifolia .....	13
<i>Ipomea</i> Hardingii .....	4
<i>Ipomea</i> Learii .....	20
<i>Ipomea</i> Limbata .....	20
<i>Lonicera</i> ; various .....	300
<i>Mandevilla</i> suaveolens .....	6
<i>Maurandia</i> Barclayana .....	12
<i>Mina</i> lobata .....	12
<i>Momordica</i> involucrata .....	6
<i>Lophospermum</i> scandens .....	96
<i>Passiflora</i> .....	37
<i>Periploca</i> græca .....	12
<i>Solanum</i> jasminoides .....	105
<i>Tacsonia</i> .....	73
<i>Tecoma</i> jasminoides .....	56
Total .....	874

## HERBACEOUS AND FLOWERING PLANTS PLANTED DURING YEAR 1889-90.

Herbaceous and flowering plants, to the number of four hundred and eighty thousand one hundred and forty-one, have been planted and seeded during the past year. These are classified as follows:

<i>Achyranthes</i> Lindenii .....	35
<i>Achyranthes</i> Versch .....	1,900
<i>Achyranthes</i> Versch; dwarf .....	1,000
<i>Achyranthes</i> bicolor .....	1,000
<i>Acroclinium</i> roseum .....	1,000
<i>Acroclinium</i> album .....	600
<i>Agatha</i> cælistis .....	265
<i>Ageratum</i> Mexicanum; blue .....	700
<i>Ageratum</i> ; white .....	1,700
<i>Agrostemma</i> coronaria .....	1,200
<i>Alonsoa</i> grandiflora .....	4,000
<i>Alternanthera</i> amæna; large red .....	3,000
<i>Alternanthera</i> amæna; small red .....	7,200
<i>Alternanthera</i> amæna; small yellow .....	8,200
<i>Alternanthera</i> amæna; large yellow .....	10,200
<i>Alternanthera</i> amæna; versicolor .....	2,200
<i>Alternanthera</i> amæna; amabilis .....	1,600
<i>Alyssum</i> var. ....	9,300
<i>Alyssum</i> Weisbeckia .....	1,300
<i>Amaranthus</i> atropurpurens .....	27
<i>Amaranthus</i> monstrosus .....	3,000
<i>Amaranthus</i> nobilis .....	6,000
<i>Amaranthus</i> tricolor .....	100
<i>Amagallis</i> Breweri grandiflora .....	100
<i>Anemone</i> hybrida .....	300
<i>Anemone</i> Japonica .....	1,000
<i>Anemone</i> alba .....	800
<i>Anemone</i> elegans fulgens .....	300
<i>Anthemis</i> coronaria .....	200
<i>Antirrhinum</i> majus .....	1,800
<i>Aquilegia</i> .....	760

Argemone Mexicanum.....	260
Artemesia.....	200
Aster.....	300
Beta Chilensis.....	150
Balsamina.....	100
Begonia; various.....	1,800
Brachycome iberidifolia.....	50
Cacalia.....	600
Calceolaria; bronze.....	700
Calceolaria; yellow.....	1,200
Calendula.....	500
Campanula media.....	300
Campanula Sibirica.....	5
Campanula pyramidalis.....	18
Canna.....	350
Carnation.....	200
Celosia plumosa.....	400
Centaurea candidissima.....	100
Centaurea cyanus.....	700
Centaurea gymnocarpa.....	150
Centranthus macrosiphon.....	100
Centranthus ruber.....	200
Cerastium tomentosum.....	2,000
Chamomile.....	50
Chieranthus chieri.....	2,900
Chrysanthemum.....	1,800
Chrysanthemum coronarium.....	500
Chrysanthemum corinatum.....	400
Cineraria hybrida.....	1,000
Commelyna alba.....	300
Coleus.....	1,050
Commelyna cœlestis.....	1,000
Colinsia tricolor.....	300
Convolvulus minor.....	125
Convolvulus tricolor.....	1,700
Coreopsis.....	1,400
Coreopsis lanceolata.....	75
Cosmos bipinnata.....	400
Crassula.....	300
Orepis rubra.....	200
Cyclamen Persicum.....	75
Cynoglossum grande.....	100
Dahlia; single.....	1,200
Dahlia variabilis.....	200
Delphinium.....	4,300
Dianthus; various.....	2,300
Digitalis purpurea.....	7,400
Escheveria.....	15,000
Erysimum Arkansanum.....	100
Erythryæa.....	18
Eschscholtzia; double.....	75
Fuchsia.....	400
Gaillardia picta.....	700
Geranium, rose.....	400
Geranium, bronze.....	1,000
Geranium, Crystal Palace Gem.....	600
Geranium, Happy Thought.....	700
Geranium, Gowan.....	400
Geranium, General Grant.....	1,300
Geranium, Mountain of Snow.....	1,500
Geranium, common mixed.....	900
Geranium, Mrs. Pollock.....	150
Geranium pelargonium.....	535
Geum coccineum.....	1,300
Gladliolus.....	900
Gnaphalium lanatum.....	700
Glaucium corniculatum.....	300
Godetia.....	2,000
Helianthus.....	250
Helichrysum.....	800
Heliotrope.....	800
Heliptrum.....	200
Hibiscus.....	400
Hollyhocks.....	50
Hyacinths.....	1,000

Hesperis candidissima .....	265
Iberis coronaria .....	700
Iberis sempervirens .....	200
Ixia .....	2,300
Lathyrus odoratus .....	200
Lathyrus; blue .....	100
Lobelia cardinalis .....	1,500
Lobelia coccinea .....	300
Lobelia erinus compacta .....	5,300
Lobelia erinus .....	1,200
Lobelia compacta; white .....	400
Lilium candidum .....	50
Leucanthemum grandiflorum .....	200
Linum .....	100
Lychnis fulgens .....	700
Marguerite; white .....	2,400
Marguerite; yellow .....	1,800
Marguerite étoile d'or .....	100
Matricaria eximia .....	200
Matthiola .....	3,600
Mesembryanthemum var. ....	116,500
Mesembryanthemum spectabile .....	20,000
Mesembryanthemum tenuifolium .....	1,000
Mesembryanthemum tricolor .....	14,800
Mignonette .....	150
Myosotis .....	6,000
Myosotis palustris .....	50
Narcissus .....	800
Nicotiana tobaccum .....	300
Oenothera Lamarckiana .....	400
Oenothera biennis .....	400
Oenothera Taraxicfolia .....	500
Othoma crassifolia .....	300
Oxalis .....	1,400
Oxalis; crimson .....	100
Palava flexuosa .....	500
Penstemon .....	1,200
Petunia hybrida .....	3,200
Petunia compacta .....	400
Phlox decussata .....	500
Phlox Drummondii .....	600
Poppy bracteatum .....	36
Poppy alpinum .....	50
Poppy nudicale .....	25
Poppy Orientalis .....	50
Poppy somniferum .....	10,000
Poppy rhæa .....	1,000
Poppy lævigatum .....	200
Poppy shirley .....	800
Portulaca .....	10,000
Pyrethrum parthenifolium .....	3,000
Ranunculus .....	120
Ricinus .....	175
Richardii Ethiopica .....	1,000
Rodanthe .....	250
Salpiglossis .....	1,300
Salvia Africanus .....	800
Salvia amabilis .....	400
Salvia coccinea .....	600
Salvia globosa .....	600
Salvia; various .....	1,200
Salvia splendens .....	1,500
Santolina .....	300
Saponaria .....	600
Scabiosa .....	800
Sedum acre .....	12,000
Sedum var. ....	10,000
Sedum arboreum .....	800
Sedum azureum .....	700
Sedum Kamtchaticum .....	500
Sempervivum .....	12,000
Sinecio elegans .....	900
Silene pendula .....	6,500
Spergula .....	20,000
Stillaria gramenæ aurea .....	5,000



<i>Tagates perennis</i> .....	500
<i>Tagates annuus</i> .....	1,100
<i>Thymus elegantissima marginata</i> .....	3,400
<i>Tritonia uvaria</i> .....	6,000
<i>Tropoælum</i> .....	1,000
<i>Tulips</i> .....	600
<i>Verbena</i> .....	1,200
<i>Viola odorata</i> .....	20,000
<i>Viola cornuta</i> .....	1,000
<i>Viola lutea</i> .....	300
<i>Viola tricolor</i> .....	3,160
<i>Viscaria</i> .....	1,600
<i>Viscaria cardinalis</i> .....	800
<i>Watsonia</i> .....	1,300
<i>Wigandia</i> .....	12
<i>Xeranthemum</i> .....	25
<i>Zinnia elegans</i> .....	1,500
Total .....	480,141

## TREES AND SHRUBS IN PARK NURSERY; THEIR NUMBER AND VALUATION.

The park nursery has occupied much time and attention, and we now have two hundred and five thousand three hundred and sixty-one trees and shrubs in the nursery, valued at \$31,274 25. We append a complete list of these, with their separate valuations:

Botanic Name.	Common Name.	Number.	Value.
<i>Abies alba</i> .....	White spruce .....	273	\$136 50
<i>Abies balsamæ</i> .....	Balsam spruce .....	11	2 75
<i>Abies Cephalonica</i> .....	Cephalonia spruce .....	1	1 00
<i>Abies cereula</i> .....	Blue spruce .....	18	18 00
<i>Abies Douglasii</i> .....	Douglas spruce .....	612	153 00
<i>Abies excelsa</i> .....	Norway spruce .....	134	33 50
<i>Abies Menziesii</i> .....	Menzies spruce .....	316	316 00
<i>Abies Mertensiana</i> .....	Merten's spruce .....	20	10 00
<i>Abies nigra</i> .....	Black spruce .....	24	12 00
<i>Abies Picea Orientalis</i> .....	Eastern spruce .....	3	15 00
<i>Abies Morinda</i> .....	Himalayan spruce .....	63	63 00
<i>Abies pectinata</i> .....	European silver fir .....	47	47 00
<i>Abies pinsapo</i> .....	Spanish silver fir .....	49	49 00
<i>Abutilon</i> ; various .....	Chinese bell flower .....	884	88 40
<i>Acacia armata</i> .....	Prickly acacia .....	430	215 00
<i>Acacia Covenia</i> .....	Coven's acacia .....	2	50
<i>Acacia cultiformis</i> .....	Knife-blade acacia .....	13	13 00
<i>Acacia dealbata</i> .....	White-leaved acacia .....	360	36 00
<i>Acacia decurrens</i> .....	Wattle acacia .....	100	10 00
<i>Acacia fragrans</i> .....	Fragrant acacia .....	5,600	560 00
<i>Acacia floribunda</i> .....	Profuse flowering acacia .....	450	45 00
<i>Acacia homotophylla</i> .....	Unchanging-in-leaves acacia .....	4	2 00
<i>Acacia latifolia</i> .....	Broad-leaved acacia .....	34,500	3,450 00
<i>Acacia linearis</i> .....	Linear-leaved acacia .....	6	60
<i>Acacia lophantha</i> .....	Crested acacia .....	20,000	2,000 00
<i>Acacia melanoxylon</i> .....	Blackwood leaves .....	4,760	476 00
<i>Acacia paradoxa</i> .....	Paradox leaves .....	87	8 70
<i>Acacia pycnantha</i> .....	Black wattle .....	6	3 70
<i>Acacia pendula</i> .....	Pendulous acacia .....	15	7 50
<i>Acacia reclinata</i> .....	Reclinate acacia .....	43	10 75
<i>Acacia Riceana</i> .....	Rice's acacia .....	25	-----
<i>Acacia saligna</i> .....	Willow-leaved acacia .....	10	5 00
<i>Acacia salicina</i> .....	Dwarf-leaved acacia .....	4	4 00
<i>Acacia verticillata</i> .....	Verticillate acacia .....	3,220	322 00
<i>Achania malvaviscus</i> .....	Turk's cap .....	86	8 60
<i>Angophora lanceolata</i> .....	.....	40	20 00
<i>Artemesia</i> .....	Wormwood .....	150	15 00
<i>Aphelandra aurantiacum</i> .....	Golden aphelandra .....	98	49 00
<i>Arancaria excelsa</i> .....	Norfolk Island pine .....	12	60 00

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.	Number.	Value.
Arbutus Unedo .....	Strawberry bush .....	9	\$9 00
Arbutus Menziesii .....	Madrona .....	630	630 00
Aucuba Japonica .....	Japanese laurel .....	18	9 00
Backhausia myrtifolia .....	.....	2	2 00
Banksia Cunninghamii .....	Cunningham's banksia .....	9	4 50
Bignonia jasminoides .....	Jasmine-leaved bignonia .....	59	29 50
Boldoa fragrans .....	Fragrant boldoa .....	7	7 00
Bouvardia .....	.....	12	6 00
Brachychiton acerifolia .....	Flame tree .....	3	3 00
Brousonetia fruticosa .....	.....	60	15 00
Brugmansia suaveolens .....	Trumpet flower .....	18	9 00
Buddlea globosa .....	Button bush .....	470	23 50
Buddlea Lindleyana .....	.....	160	40 00
Bupleurum fruticosum .....	.....	20	20 00
Buxus sempervirens .....	Boxwood .....	4,040	404 00
Callistaychs lanceolata .....	Lanceolate callistaychs .....	5	2 50
Calistris cypressiformis .....	Cypress-like calistris .....	1	1 00
Callistemon rigidus .....	.....	300	30 00
Callistemon saligna .....	Willow-leaved calistemon .....	286	71 50
Callistemon suaveolens .....	.....	400	40 00
Calothamnus purpurea .....	Purple calothamnus .....	6	60
Calothamnus quadrifida .....	Four-parted calothamnus .....	10	5 00
Calothamnus sanguinea .....	Blood-red calothamnus .....	8	4 00
Capparis ovata .....	Caper .....	2	1 00
Capsicum .....	Pepper .....	118	11 80
Carpenteria Californica .....	.....	1	1 00
Cassia corymbosa .....	Senna .....	500	50 00
Cassia floribunda .....	Flowering senna .....	1	50
Cassia laevigata .....	.....	100	10 00
Cassia tomentosa .....	Woolly senna .....	186	18 60
Casuarina quadrivalvis .....	.....	52	26 00
Casuarina suberosa .....	Cork-bark casuarina .....	27	2 70
Casuarina stricta .....	Erect casuarina .....	1	50
Casuarina tenuissima .....	Narrow-leaved casuarina .....	84	21 00
Casuarina torulosa .....	Twisted casuarina .....	146	146 00
Ceanothus Africanus .....	African ceanothus .....	3,072	763 00
Ceanothus Verrucosus .....	California lilac .....	1,225	122 50
Cedrus Atlantica .....	Mount Atlas cedar .....	35	35 00
Cedrus argentea .....	Mt. Atlas silver-leaved cedar .....	18	18 00
Cedrus Libani .....	Cedar of Lebanon .....	18	18 00
Cedrus deodara .....	Deodar .....	6	6 00
Cerasus ilicifolia .....	Evergreen cherry .....	10	10 00
Ceratonia siliqua .....	Carob tree .....	125	62 50
Cercocarpus betulifolius .....	.....	1	1 00
Cestrum aurantiacum .....	Golden cestrum .....	36	9 00
Chorozema ilexifolia .....	Holly-leaved chorozema .....	10	5 00
Cistus albidus .....	White rock rose .....	117	58 50
Cistus floribunda .....	Free-flowering rock rose .....	15	3 75
Cistus ladaniferus maculata .....	Sweet-scented rock rose .....	1,640	810 00
Cistus parviflora .....	Sparse-flowered rock rose .....	18	9 00
Cistus salviafolia .....	Salvia-leaved rock rose .....	4	2 00
Citrus aurantiacum .....	Orange .....	39	19 50
Clematis crispa .....	.....	30	30 00
Clianthus puniceus .....	Parrot's-bill flower .....	200	50 00
Cobea scandens .....	Climbing cobea .....	25	12 50
Coccoloba platyclada .....	Seaside grape .....	11	2 75
Coletia ferox .....	Thorny coletia .....	3	75
Coprosma Baueriana .....	Bauer's coprosma .....	2	1 00
Coprosma Baueriana, var. .....	Bauer's var. coprosma .....	4	4 00
Coriaria myrtifolia .....	Myrtle-leaved coriaria .....	3	1 50
Coriaria ruscifolia .....	Ruscus-leaved coriaria .....	2	2 00
Coronilla emerus .....	.....	2	2 00
Coronilla glauca .....	Glaucus coronilla .....	56	14 00
Coronilla juncea .....	Rush-leaved coronilla .....	16	4 00
Coronilla Valentina .....	Valentine's coronilla .....	100	33 00
Corynocarpus lavigatus .....	Smooth corynocarpus .....	9	9 00
Cotoneaster rotundifolia .....	Round-leaved cotoneaster .....	9	4 50
Crategus pyracantha .....	Running bush .....	50	12 50
Cryptomeria elegans .....	Elegant Japanese cedar .....	225	122 50
Cupressus Africanus .....	African cypress .....	2	2 00

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.	Number.	Value.
Cuphea platycentra .....	Cigar plant .....	340	\$34 00
Cupressus Chinensis .....	Chinese cypress .....	1	1 00
Cupressus excelsa .....	Noble cypress .....	1	1 00
Cupressus elegans .....	Elegant cypress .....	7	7 00
Cupressus funebris .....	Funeral cypress .....	1	1 00
Cupressus Goveniana .....	.....	587	58 70
Cupressus Guadalupensis .....	.....	320	32 00
Cupressus Lawsoniana .....	Lawson's cypress .....	1,290	322 50
Cupressus macrocarpa .....	Monterey cypress .....	7,080	708 00
Cupressus McNabiana .....	McNab's cypress .....	8	2 00
Cupressus pyramidalis .....	Pyramidal cypress .....	21	10 50
Cupressus sempervirens .....	.....	59	5 90
Cytisus albidus .....	White cytissus .....	3	75
Cytisus albidus proliferus .....	White free-flowering cytissus .....	5	1 25
Cytisus Alpinus .....	Scotch laburnum .....	10	2 00
Cytisus hirsutus .....	Hairy laburnum .....	1,040	520 00
Cytisus laburnum .....	Golden chain .....	90	22 50
Cytisus proliferus .....	Free-flowering laburnum .....	8	4 00
Cytisus quercifolia .....	Oak-leaved laburnum .....	16	8 00
Cytisus spinosus .....	Spiny laburnum .....	2	1 00
Daphne mezereum .....	.....	5	5 00
Deeringia celosioides .....	.....	82	20 50
Deeringia celosioides var. ....	.....	54	13 50
Diosma alba .....	Breath of heaven .....	104	20 80
Diosma purpurea .....	Purple breath of heaven .....	320	80 00
Dolichos .....	Australian pea .....	36	3 60
Dracocephalum Canarensis .....	Balm of Gilead .....	10	1 00
Drinujis arillaris .....	.....	4	4 00
Echium structum .....	.....	25	12 50
Edwardsia microphylla .....	Small-leaved Edwardsia .....	6	6 00
Edwardsia myriophylla .....	Many-leaved Edwardsia .....	10	10 00
Eleagnus Japonica .....	Oleaster .....	444	222 00
Eleagnus angustifolia, var. Hor- tensia .....	.....	88	44 00
Entelea arborescens .....	New Zealand cork .....	10	2 50
Erica capitata .....	Heath .....	2	1 00
Erica Mediterranea .....	Mediterranean heath .....	306	30 60
Eriobotrya Japonica loquat .....	.....	25	25 00
Escallonia floribunda .....	.....	30	7 50
Escallonia Montevidensis .....	.....	30	15 00
Escallonia rosea .....	.....	210	52 50
Escallonia rubra .....	.....	27	6 75
Eucalyptus amygdalina .....	Almond-leaved gum .....	38	3 80
Eucalyptus citriodora .....	.....	10	1 00
Eucalyptus globulus .....	Blue gum .....	10,000	500 00
Eucalyptus gonicalyx .....	Angled gum .....	22	2 20
Eucalyptus leucoxydon .....	White gum .....	52	5 20
Eucalyptus macrocarpa .....	.....	52	5 20
Eucalyptus occidentalis .....	.....	64	6 40
Eucalyptus rostrata .....	Spurred gum .....	100	10 00
Eucalyptus varacmanioides .....	.....	33	3 30
Eugenia myrtifolia .....	Myrtle-leaved eugenia .....	146	36 50
Euonymus Japonica .....	Japanese spindle tree .....	460	46 00
Eupatorium ageratoides .....	Snakeroot .....	120	12 00
Eupatorium triste .....	Snakeroot .....	74	12 33
Euphorbia heterophylla .....	.....	5	5 00
Eurybia .....	.....	50	12 50
Eugtryphus latifolius .....	.....	3	3 00
Fabiana imbricata .....	.....	200	50 00
Frenella rhomboides .....	.....	3	1 50
Frenella robusta .....	.....	6	3 00
Genista alba .....	White broom .....	3,200	320 00
Genista Canariense .....	.....	12	1 20
Genista candicans .....	White broom .....	244	24 40
Genista capensis .....	Cape broom .....	12	1 20
Genista linifolia .....	Flax-leaved broom .....	184	18 40
Genista proliferus .....	Free-flowering broom .....	12	1 20
Genista tinctoria .....	Scotch broom .....	4,000	400 00
Goodia latifolia .....	Broad-leaved goodia .....	15	1 50
Grevillea robusta .....	Silk oak .....	19	19 00
Grevillea hirta .....	.....	1	1 00



## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.	Number.	Value.
<i>Habrothamnus coccineus</i> .....		358	\$89 50
<i>Habrothamnus elegans</i> .....		1,080	270 00
<i>Hamamelis Virginica</i> .....		4	4 00
<i>Helianthemum roseum</i> .....	Sun rose .....	22	11 00
<i>Hoheria populnea</i> .....		100	50 00
<i>Hydrangea Hortensia</i> var. ....		9	2 25
<i>Hydrangea paniculata</i> .....		74	7 40
<i>Hypericum patulum</i> .....	St. John's wort .....	6	60
<i>Hymenosporum flavum</i> .....		6	6 00
<i>Indigofera Australis</i> .....	Indigo .....	12	3 00
<i>Indigofera dosua</i> .....	Indigo .....	241	50 00
<i>Indigofera tinctoria</i> .....	Indigo .....	8	2 00
<i>Inga dulcis</i> .....	Flower fence .....	10	10 00
<i>Isochroma tubulosa</i> .....		272	68 00
<i>Ilex aquifolia</i> .....	Holly .....	3	3 00
<i>Itea Virginica</i> .....		44	4 40
<i>Jacaranda minosæfolia</i> .....		1	1 00
<i>Jasminum capensis</i> .....		6	3 00
<i>Jasminum puticosum</i> .....	Yellow jasmine .....	160	16 00
<i>Jasminum officinalis</i> .....	White jasmine .....	192	19 20
<i>Juniperus Bermudianus</i> .....	Bermuda juniper .....	120	30 00
<i>Juniperus Chinensis alba</i> .....	Chinese juniper .....	164	41 00
<i>Juniperus compacta</i> .....	Compact juniper .....	43	10 75
<i>Juniperus communis</i> .....	Common juniper .....	104	26 00
<i>Juniperus Lycia</i> .....		30	7 50
<i>Juniperus squamata</i> .....	Squamate juniper .....	48	24 00
<i>Juniperus sabina</i> .....	Sabin juniper .....	400	100 00
<i>Juniperus prostrata</i> .....	Prostrate juniper .....	1,590	159 00
<i>Juniperus Virginiana</i> .....		362	90 00
<i>Kerria Japonica</i> .....		24	12 00
<i>Kunzia pomifera</i> .....		2	2 00
<i>Lagerstræmia Indica</i> .....	Crape myrtle .....	205	20 50
<i>Lantana superba</i> .....		176	17 60
<i>Laurus camphora</i> .....	Camphor tree .....	100	25 00
<i>Laurus glandulosa</i> .....		2	2 00
<i>Laurus Indica</i> .....	Indian laurel .....	6	12 00
<i>Laurus Lusitanicus</i> .....	Portugal laurel .....	300	75 00
<i>Laurus nobilis</i> .....	Sweet bay .....	10	10 00
<i>Lavatera arborea</i> var. ....	Tree mallow .....	100	50 00
<i>Lavandula stæcha</i> .....	Lavender .....	3	38
<i>Lavandula vera</i> .....	True lavender .....	12	6 00
<i>Leonotis Leonurus</i> .....	Lion's-tail flower .....	150	150 00
<i>Leptospermum ericoides</i> .....		400	100 00
<i>Leptospermum lævigatum</i> .....	New Zealand tea .....	30,000	3,000 00
<i>Leptospermum scoparium</i> .....		10,000	1,000 00
<i>Libocedrus decurrens</i> .....	Port Orford cedar .....	23	23 00
<i>Libonia floribunda</i> .....		75	18 75
<i>Ligustrum Japonicum alba</i> .....		585	146 25
<i>Litrea caustica</i> .....		6	6 00
<i>Lonicera brachypoda</i> .....		117	25 00
<i>Lonicera chamæcerasus</i> .....	Cherry honeysuckle .....	136	34 00
<i>Lonicera chamærosea</i> .....	Cherry honeysuckle .....	150	37 50
<i>Lonicera pulcherrima</i> .....	Cherry honeysuckle .....	98	24 50
<i>Lonicera pulcherrima alba</i> .....	Cherry honeysuckle .....	120	30 00
<i>Lonicera grandiflora</i> .....	Large flowered honeysuckle .....	160	40 00
<i>Lonicera Japonica</i> .....	Japanese honeysuckle .....	180	21 50
<i>Lonicera Japonica</i> var. ....	Variegated honeysuckle .....	860	86 00
<i>Lonicera</i> .....	English honeysuckle .....	284	71 00
<i>Lonicera tatarica splendens</i> .....		136	34 00
<i>Lophospermum scandens</i> .....		288	144 00
<i>Lycium parviflorum</i> .....		2,580	258 00
<i>Mahernia odorata</i> .....		126	12 60
<i>Mahonia aquifolia</i> .....		9	4 50
<i>Maurandia Barclayana</i> .....		6	1 74
<i>Maitenus Chilensis</i> .....		12	3 00
<i>Melaleuca hypericifolia</i> .....		24	2 40
<i>Melia Azedarach</i> .....	Pride of India .....	100	50 00
<i>Melia</i> .....	Texas umbrella tree .....	150	75 00
<i>Mispilus Japonica</i> .....	Medlar .....	7	3 50
<i>Myoporum lactum</i> .....		200	50 00
<i>Moreria Palmerii</i> .....		10	10 00



## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.	Number.	Value.
Myrica Californica .....	Wax berry .....	10	\$5 00
Myrtus communis .....	Myrtle .....	2,120	212 00
Myrtus mucronata .....	Sharp-pointed myrtle .....	2,240	224 00
Neirembergia gracilis .....	.....	360	36 00
Nussa aquatica .....	.....	2	1 00
Olea sativa .....	Olive .....	24	12 00
Passiflora .....	Passion flower .....	150	37 50
Perophyllum ramosissima .....	.....	6	6 00
Phillyrea angustifolia .....	.....	10	5 00
Phillyrea latifolia .....	.....	12	6 00
Phillyrea media .....	.....	18	9 00
Photinia arbutifolia .....	California red berry .....	2	50
Photinia serrulata .....	.....	2	1 00
Picea amabilis .....	Lovely silver fir .....	1	50
Picea excelsa .....	.....	27	27 00
Picea Litchensis .....	.....	15	15 00
Picea magnifica .....	Magnificent fir .....	23	11 50
Picea nobilis .....	Noble fir .....	1,000	500 00
Picea pectinata .....	.....	42	42 00
Picea pinsapo .....	.....	49	49 00
Pimelia rosea .....	.....	104	52 00
Pinus Austriaca .....	Austrian pine .....	96	48 00
Pinus cembra .....	Swiss stone pine .....	6	3 00
Pinus Coulterii .....	Coulter's pine .....	15	7 50
Pinus densiflora .....	Large flowering pine .....	2	2 00
Pinus excelsa .....	Lofty pine .....	70	140 00
Pinus Halapensis .....	Aleppo pine .....	567	141 75
Pinus Hamiltonii .....	Hamilton's pine .....	336	336 00
Pinus insignis .....	Monterey pine .....	3,660	366 00
Pinus Jeffreyana .....	Jeffrey's pine .....	111	55 50
Pinus Lambertiana .....	Sugar pine .....	15	7 50
Pinus Laricio Calabrica .....	Calabrian pine .....	300	150 00
Pinus Laricio .....	Larician pine .....	54	27 00
Pinus longifolia .....	Long-leaved pine .....	17	17 00
Pinus maritima .....	Sea pine .....	480	48 00
Pinus Massoniana .....	Masson's pine .....	30	30 00
Pinus metis .....	Yellow pine .....	14	14 00
Pinus monticola .....	Mountain pine .....	22	22 00
Pinus muricata .....	Bishop's pine .....	274	264 00
Pinus mugho .....	Mugho pine .....	20	20 00
Pinus nigra .....	Black pine .....	10	10 00
Pinus parviflora .....	Few-flowered pine .....	3	3 00
Pinus pinaster .....	Sea pine .....	100	25 00
Pinus pinea .....	Italian stone pine .....	161	161 00
Pinus ponderosa .....	Ponderous pine .....	74	74 00
Pinus rubra .....	Red pine .....	432	432 00
Pinus Sabiniana .....	Digger pine .....	2	2 00
Pinus Strobus .....	Weymouth pine .....	66	66 00
Pinus Sylvestris .....	Scotch pine .....	548	274 00
Pinus Taeda .....	Loblolly pine .....	1	1 00
Pinus tomentosa .....	Woolly pine .....	5	5 00
Pinus Torreyana .....	Torrey's pine .....	10	10 00
Pinus tuberculata .....	.....	16	8 00
Pittosporum Buchanic .....	.....	10	10 00
Pittosporum eugeneoides .....	Turpentine tree .....	16	4 00
Pittosporum crassifolium .....	Turpentine tree .....	4,520	1,130 00
Pittosporum nigrum .....	.....	1,652	413 00
Pittosporum tobira variegata .....	.....	10	10 00
Pittosporum rhombifolium .....	.....	12	12 00
Pittosporum undulatum .....	.....	28	14 00
Plagianthus Lyallii .....	.....	50	25 00
Plumbago capensis .....	Lead wort .....	350	175 00
Poinciana Gilliesii .....	Flower fence .....	26	13 00
Polygala Dalmasiana .....	Milkwort .....	180	18 00
Polygala grandiflora .....	Milkwort .....	4	2 00
Polygala speciosa .....	Milkwort .....	4	2 00
Prosthanthera læcanthos .....	.....	12	6 00
Prosthanthera minea .....	.....	3	1 50
Prosthanthera suberosa .....	.....	22	11 00
Psoralea pinnata .....	.....	360	100 00
Pyrus Japonica .....	Japanese quince .....	18	9 00

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.	Number.	Value.
<i>Quercus robur</i> .....	English oak .....	2	\$2 00
<i>Quercus suber</i> .....	Cork oak .....	2	2 00
<i>Retinospora obtusa</i> .....	Japanese cypress .....	9	4 50
<i>Raphiolepes indica</i> .....	.....	98	24 50
<i>Rhamnus alpinus</i> .....	.....	34	17 00
<i>Rhamnus Californica</i> .....	California coffee .....	1,900	190 00
<i>Rhamnus Catharticus</i> .....	.....	70	17 50
<i>Rhamnus frangula</i> .....	.....	235	50 00
<i>Rhododendron Catawbiense</i> .....	.....	282	141 00
<i>Rhododendron hyb.</i> .....	.....	61	18 30
<i>Rhododendron ponticum</i> .....	.....	140	15 40
<i>Rosemarinus officinalis</i> .....	Rosemary .....	12	3 00
<i>Rubus roseæfolius</i> .....	.....	6	3 00
<i>Ruscus aculeatus</i> .....	.....	60	30 00
<i>Salvia fulgens</i> .....	Fulgent sage .....	100	10 00
<i>Schinus molle</i> .....	Pepper tree .....	308	77 00
<i>Schinus terebinthefolia</i> .....	.....	1	50
<i>Schotia tamarindifolia</i> .....	.....	1	1 00
<i>Scediotrys verticillata</i> .....	Umbrella pine .....	1	3 00
<i>Sequoia gigantea</i> .....	Big tree .....	65	32 50
<i>Sequoia sempervirens</i> .....	Redwood .....	66	8 35
<i>Sida pulchella</i> .....	.....	120	12 00
<i>Solanum capsicastrum</i> .....	Jerusalem cherry .....	189	9 45
<i>Solanum jasminoides</i> .....	.....	180	18 00
<i>Solanum jasminoides</i> var. ....	.....	164	16 40
<i>Solanum laconiatum</i> .....	Laciniate solanum .....	60	6 00
<i>Solanum lanceolatum</i> .....	Lanceolate solanum .....	100	8 25
<i>Solanum robustum</i> .....	Robust solanum .....	200	20 00
<i>Sollya heterophylla</i> .....	.....	25	6 25
<i>Spartium junceum</i> .....	Spanish broom .....	100	25 00
<i>Spirea Billardii</i> .....	Billiard's spirea .....	12	1 50
<i>Spirea Reevesii</i> .....	Bridal wreath .....	118	29 50
<i>Staphyllea pinnata</i> .....	.....	6	3 00
<i>Stevia serrata</i> .....	Blood root .....	40	4 00
<i>Swainsonia galegifolia</i> .....	.....	10	5 00
<i>Syncarpia laurifolia</i> .....	.....	800	200 00
<i>Tacsonia</i> .....	.....	500	125 00
<i>Tamarindus indica</i> .....	Tamarind .....	10	10 00
<i>Taxus baccata</i> .....	English yew .....	2	2 00
<i>Taxus fastigiata</i> .....	Irish yew .....	12	12 00
<i>Taxus cuspidata</i> .....	New Zealand yew .....	3	3 00
<i>Tecoma bignonioides</i> .....	.....	6	3 00
<i>Tecoma capensis</i> .....	.....	18	45 00
<i>Tamarix elegans</i> .....	.....	100	10 00
<i>Tecoma jasminoides</i> .....	.....	50	25 00
<i>Tecoma gracilis</i> .....	.....	2	1 00
<i>Tecoma radicans</i> .....	.....	15	7 50
<i>Teucrium Canadense</i> .....	Germander .....	100	50 00
<i>Thuja gigantea</i> .....	.....	33	16 50
<i>Thuja Nepalensis</i> .....	Nepal arbor vitæ .....	300	30 00
<i>Thuja Orientalis</i> .....	Eastern arbor vitæ .....	255	25 50
<i>Thuja pendula</i> .....	Pendulis arbor vitæ .....	15	7 50
<i>Thuja Tatarica</i> .....	Siberian arbor vitæ .....	480	120 00
<i>Thuyiopsis dolabrata</i> .....	Hatchet-leaved arbor vitæ .....	334	167 00
<i>Tristania conferta</i> .....	.....	352	176 00
<i>Ulex Europea</i> .....	Furze .....	315	31 50
<i>Umbellularia Californica</i> .....	California laurel .....	40	20 00
<i>Veronica Andersonii</i> .....	Speedwell .....	684	171 00
<i>Veronica decussata</i> .....	Speedwell .....	960	96 00
<i>Veronica longifolia</i> .....	Speedwell .....	37	3 70
<i>Veronica paniculata</i> .....	Speedwell .....	112	11 20
<i>Veronica parviflora</i> .....	Speedwell .....	1,350	135 00
<i>Viburnun lucidum</i> .....	.....	48	24 00
<i>Viburnun opulus</i> .....	Snowball .....	120	60 00
<i>Viburnun tinus</i> .....	Laurestinus .....	148	14 80
<i>Weigelia rosea</i> .....	.....	12	1 20
<i>Widdringtonia cupressoides</i> .....	.....	48	22 00
Totals .....	.....	205,361	\$31,274 25

## DECIDUOUS PLANTS NOT INCLUDED IN OTHER LIST.

We also have, not included in the preceding list, nine thousand and fifty-one deciduous plants, valued at \$891 02, a list of which is as follows:

Botanic Name.	Common Name.	Number.	Value.
<i>Acer dasycarpum</i> .....	Silver maple .....	10	\$1 00
<i>Acer macrophyllum</i> .....	Broad-leaved maple .....	10	1 00
<i>Acer platanoides</i> .....	Norway maple .....	21	2 10
<i>Acer rubrum</i> .....	Red maple .....	4	40
<i>Æsculus flava</i> .....	.....	4	1 00
<i>Æsculus hippocastanum</i> .....	Horse-chestnut .....	3	75
<i>Æsculus pavia rubra</i> .....	Red buckeye .....	4	12
<i>Ailanthus glandulosa</i> .....	Tree of heaven .....	11	55
<i>Albizia lophantha</i> .....	Red acacia .....	56	2 80
<i>Alnus serrulata</i> .....	Sun-leaved alder .....	4	2 00
<i>Aloysia citriodora</i> .....	Lemon verbenæ .....	254	12 70
<i>Amorpha crocea-lanata</i> .....	False indigo .....	460	23 00
<i>Amorpha fragrans nana</i> .....	False indigo, dwarf .....	460	23 00
<i>Amorpha fruticosa</i> .....	False indigo, shrubby .....	300	15 00
<i>Amorpha glabra</i> .....	False indigo, rough .....	466	23 00
<i>Amorpha Lewisii</i> .....	False indigo, Lewis .....	460	23 00
<i>Ampelopsis Veitchii</i> .....	Veitch's Virginia creeper .....	54	10 80
<i>Ampelopsis Royalii</i> .....	Royal's Virginia creeper .....	37	7 40
<i>Amygdalus communis</i> .....	Sweet almond .....	16	80
<i>Amygdalus amarus</i> .....	Bitter almond .....	10	50
<i>Anona cherimolia</i> .....	Custard apple .....	1	50
<i>Anona triloba</i> .....	.....	10	10 00
<i>Berberis vulgaris</i> .....	Common barberry .....	130	13 00
<i>Berberis stenophylla</i> .....	Narrow-leaved barberry .....	3	30
<i>Berberis heterophylla</i> .....	.....	1	10
<i>Berberis dulcis</i> .....	Sweet barberry .....	15	1 50
<i>Berberis Darwinii</i> .....	Darwin's barberry .....	12	1 20
<i>Betula laciniata</i> .....	Cut-leaved birch .....	3	30
<i>Betula lenta</i> .....	Cherry birch .....	8	80
<i>Betula lutea</i> .....	Yellow birch .....	12	1 20
<i>Betula populifolia</i> .....	Poplar-leaved birch .....	6	60
<i>Calicarpa Americana</i> .....	.....	11	5 50
<i>Caragana altagana</i> .....	Siberian pea tree .....	1	1 00
<i>Catalpa bignonioides</i> .....	Indian bean .....	10	1 00
<i>Catalpa speciosa</i> .....	Indian bean .....	46	4 60
<i>Carya alba</i> .....	Hickory .....	15	7 50
<i>Carya amara</i> .....	.....	18	9 00
<i>Carya olivæformis</i> .....	Pecan nut .....	2	2 00
<i>Carya porcina</i> .....	.....	15	7 50
<i>Castanea Americana</i> .....	American chestnut .....	16	4 00
<i>Celtis australis</i> .....	Southern nettle tree .....	190	19 00
<i>Celtis cordata</i> .....	Heart-leaved nettle tree .....	100	10 00
<i>Cercis Canadensis</i> .....	Judas tree .....	2	20
<i>Cercis siliquastrum</i> .....	.....	124	12 40
<i>Chronanthus Virginicus</i> .....	Fungi tree .....	2	20
<i>Clematis coccinea</i> .....	Virginia bower .....	1	25
<i>Clematis flammula</i> .....	Virginia bower .....	200	40 00
<i>Citrus trifoliata</i> .....	Three-leaved citrus .....	10	5 00
<i>Colutea cruenta</i> .....	Bladder senna .....	25	2 50
<i>Colutea glauca</i> .....	Bladder senna .....	36	3 60
<i>Deutzia crenata</i> .....	.....	285	57 00
<i>Deutzia gracilis</i> .....	.....	6	1 50
<i>Deutzia scabra</i> .....	.....	12	3 60
<i>Ficus carica</i> .....	Fig tree .....	4	40
<i>Fraxinus alba Americana</i> .....	American white ash .....	54	5 40
<i>Fraxinus excelsior</i> .....	English ash .....	5	50
<i>Fraxinus Oregonia</i> .....	Oregon ash .....	24	2 40
<i>Fraxinus platycarpa</i> .....	.....	8	4 00
<i>Gleditschia triacantha</i> .....	Honey locust .....	12	1 20
<i>Gymnocladus Canadensis</i> .....	Kentucky coffee tree .....	2	20
<i>Hibiscus</i> ; various .....	.....	300	30 00
<i>Juglans nigra</i> .....	Black walnut .....	12	1 20
<i>Juglans regia</i> .....	English walnut .....	3	30
<i>Juglans Sieboldii</i> .....	.....	6	3 00



## DECIDUOUS PLANTS—Continued.

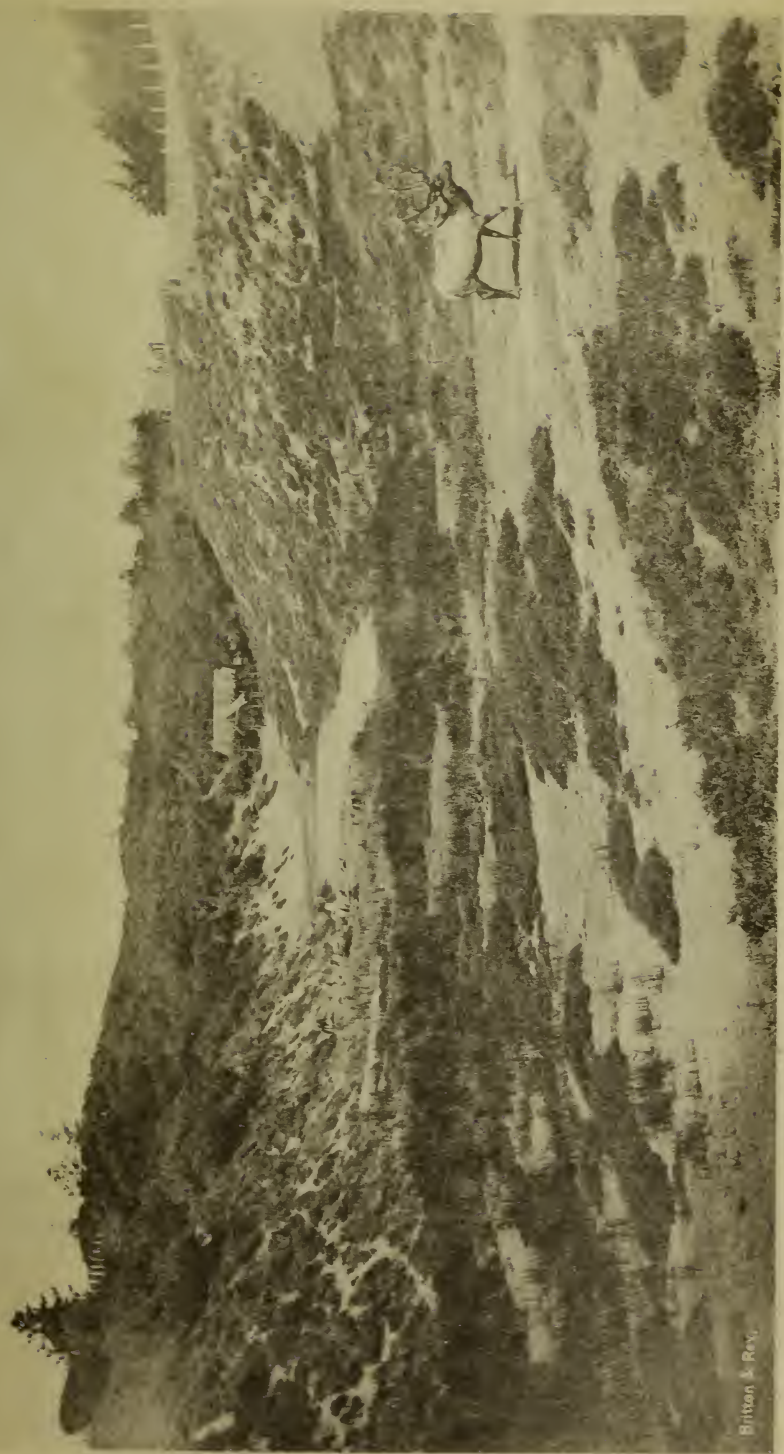
Botanic Name.	Common Name.	Number.	Value.
Kolreuteria paniculata.....	.....	630	\$31 50
Larix Europea.....	Larch fir.....	170	17 00
Liriodendron tulipifera.....	Tulip tree.....	175	17 50
Morus alba.....	White mulberry.....	140	7 00
Morus Russian.....	Russian mulberry.....	2	1 00
Negundo aceroides.....	.....	7	70
Paulownia imperialis.....	Paulownia.....	12	1 20
Phaseolus caracalla.....	Snail flower.....	1	50
Philadelphus coronarius.....	Mock orange.....	224	22 40
Pistacia vera.....	.....	5	5 00
Planera cuspidata.....	Planer tree.....	2	2 00
Populus dilatata.....	Poplar.....	6	60
Platanus occidentalis.....	Sycamore.....	4	1 00
Ptelea trifoliata.....	Hop tree.....	63	6 30
Quercus coccinea.....	.....	4	4 00
Quercus Palustris.....	.....	79	79 00
Quercus robur.....	English oak.....	2	2 00
Quercus rubra.....	.....	23	23 00
Rhus capallina.....	Dwarf sumac.....	2	1 00
Rhus coriaria.....	Sicilian sumac.....	2	2 00
Ribes grossularia.....	Wild gooseberry.....	6	30
Ribes sanguinea.....	Wild currant.....	18	1 80
Robinia pseud-acacia.....	Locust.....	25	2 50
Roses.....	.....	2,000	100 00
Salisburya adiantifolia.....	Maiden-hair tree.....	6	3 00
Salix; various.....	Willow.....	263	13 15
Sophora Japonica pendula.....	Japanese sophora.....	169	42 50
Styrax Africana.....	.....	14	7 00
Styrax officinalis.....	.....	3	3 00
Syringa vulgaris.....	Lilac.....	300	15 00
Tamarix gallica.....	Tamarack.....	100	1 00
Taxodium distichum.....	.....	80	20 00
Tilia Americana.....	American linden.....	2	50
Tilia Europea.....	European linden.....	2	50
Ulmus Americana.....	American elm.....	6	60
Ulmus suberosa.....	Cork elm.....	12	12 00
Virgillea lutea.....	Yellow wood.....	70	7 00
Virgillea capensis.....	Cape wood.....	11	1 10
Vitex agnus-castus.....	Chaste tree.....	9	9 00
Totals.....	.....	9,051	\$891 02

## ALOES, PALMS, AND GRASSES.

We have now in the nursery three thousand nine hundred and twenty-one different aloes, palms, and grasses, valued at \$412 23. We append a complete list of these, with their separate valuations:

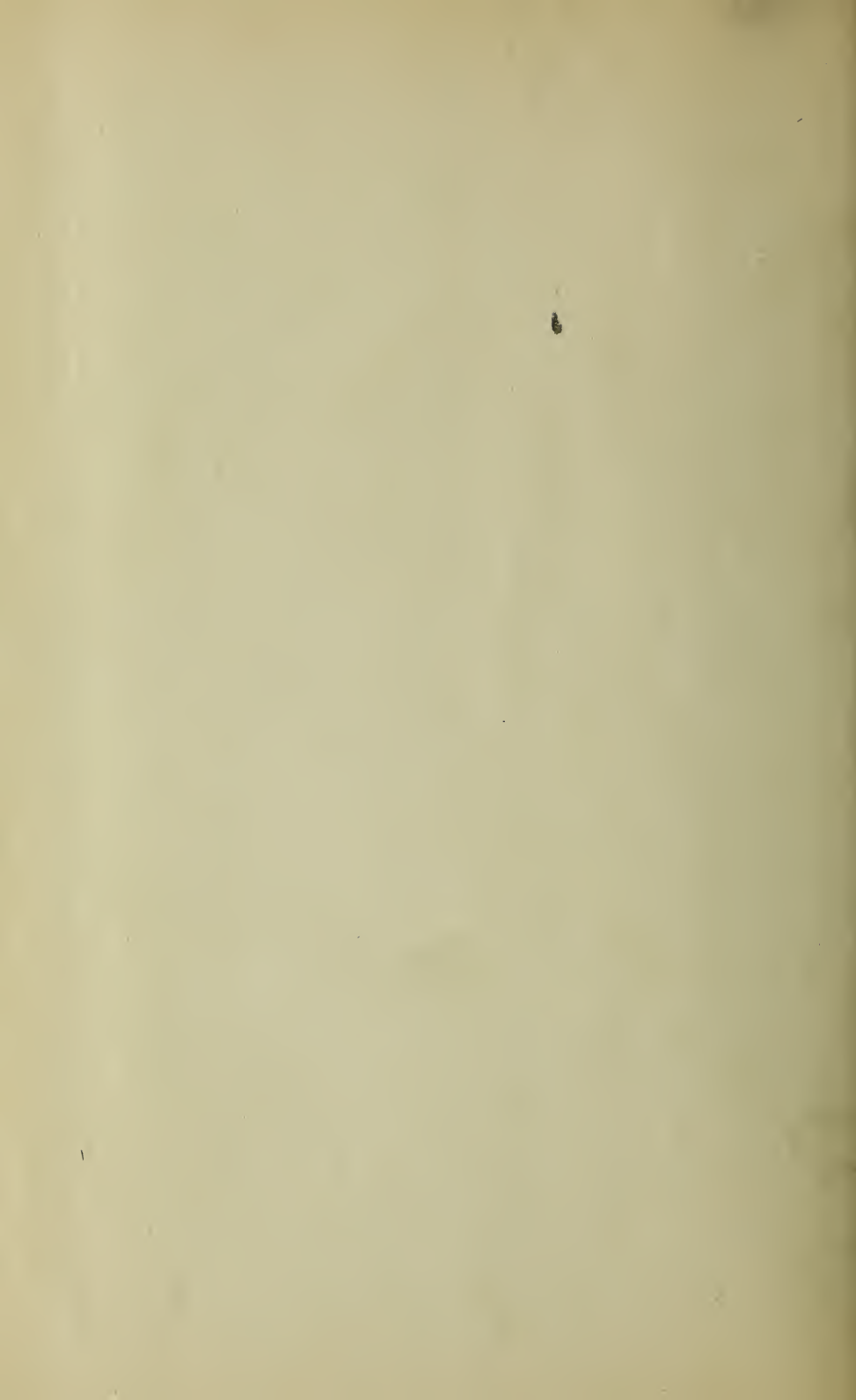
Botanic Name.	Common Name.	Number.	Value.
Agave Americana.....	Century plant.....	130	\$13 00
Agave Americana var.....	Variiegated century plant.....	96	19 20
Agave Angustifolia.....	Flowery century plant.....	4	4 00
Agave dealbata.....	Flowery century plant.....	10	5 00
Agave Corubescens.....	Blue-leaved century plant.....	6	6 00
Agave densiflora.....	Dense-flowered century plant.....	30	15 00
Agave ferox.....	Ferocious century plant.....	20	10 00
Agave lophantha.....	Crested century plant.....	30	15 00
Agave Salmiana.....	Salm's century plant.....	22	11 00
Agave stenophylla.....	Narrow-leaved century plant.....	36	18 00
Agave Vivipara.....	(Vuipi) Viviparous century plant.....	2	2 00
Arundo donax.....	Striped reed.....	10	2 00
Avena elatior.....	Tall oat grass.....	300	3 00
Bambusa; various.....	Bamboo.....	30	15 00
Brahea edulis.....	Edible fruited palm.....	6	6 00





DEER AND ELK GLEN.

Bitton & Roy.



## ALOE, PALMS, AND GRASSES—Continued.

Botanic Name.	Common Name.	Number.	Value.
Brahea filamentosa .....	Thready palm .....	100	\$10 00
Chamærops excelsa .....	Tall palm .....	110	11 00
Chamærops Martiniana .....	Martin's palm .....	6	6 00
Doryanthes Palmerii .....	.....	503	5 05
Dracæna Australis .....	Southern dragon tree .....	120	24 00
Dracæna nutans .....	New Zealand dragon tree .....	46	9 20
Elymus condensatus .....	Lyme grass .....	12	12 00
Eulalia Japonica .....	Japanese grass .....	200	50 00
Eulalia Japonica zebrina .....	Japanese zebra grass .....	12	3 00
Gynerium argenteum .....	Pampas grass .....	200	40 00
Iris (in variety) .....	.....	100	10 00
Musa ensete .....	Abyssinian banana .....	2	5 00
Phalaris canariensis .....	Common canary grass .....	200	1 50
Phalaris arundinacea .....	Reed-like canary grass .....	54	5 40
Opuntia; various .....	Contongued cactus .....	150	15 00
Phormium tenax .....	New Zealand flax .....	1,034	51 70
Phoenix canariensis .....	Canary Is. date palm .....	2	2 00
Phoenix dactylifera .....	Common date palm .....	3	3 00
Phoenix Leonensis .....	.....	3	2 00
Phoenix Sylvestris .....	Wood date palm .....	1	1 00
Phoenix tenices .....	.....	1	1 00
Pritchardia filifera .....	California fan palm .....	18	18 00
Stipa pennata .....	Common feather grass .....	4	08
Stipa tenacissima .....	Tough feather grass .....	6	48
Yucca; various .....	.....	300	3 00
Jubæa spectabilis .....	Showy Jubæa .....	2	50
Totals .....	.....	3,921	\$412 23

## CATALOGUE OF TREES AND SHRUBS IN THE GOLDEN GATE PARK.

Botanic Name.	Common Name.
Abies Douglasii .....	Douglas spruce.
Abies excelsa .....	Norway spruce.
Abies Mertensiana .....	Mertens spruce.
Abies Menziesii .....	Menzies spruce.
Abies nigra .....	Black spruce.
Abies Hookeriana .....	.....
Abutilon Thomsonii .....	China bellflower.
Abutilon Boule de Neige .....	White China bellflower.
Abutilon vexilaria .....	.....
Abutilon striatum .....	Striated bellflower.
Abutilon aurea .....	Golden bellflower.
Abutilon Thomsonii variegata .....	.....
Acacia armata .....	Thorny acacia.
Acacia decurrens .....	Silver wattle acacia.
Acacia dealbata .....	.....
Acacia cuttriformis .....	Cutter-leaved acacia.
Acacia fragrans .....	Sweet acacia.
Acacia floribunda .....	Free blooming acacia.
Acacia implexa .....	.....
Acacia latifolia .....	Broad-leaved acacia.
Acacia lophantha .....	Crested acacia.
Acacia linearis .....	Flax-leaved acacia.
Acacia melanoxydon .....	Blackwood acacia.
Acacia mollissima .....	Sweetest acacia.
Acacia pycnantha .....	Black wattle acacia.
Acacia Salixiana .....	Willow-leaved acacia.
Acacia Farnesiana .....	.....
Acacia homotophylla .....	.....
Acacia verticillata .....	.....
Acer campestre .....	English maple.
Acer dasycarpium .....	Silver maple.
Acer macrophyllum .....	Large-leaved maple.
Acer platanoides .....	Norway maple.

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
<i>Acer rubrum</i>	Red-leaved swamp maple.
<i>Acer saccharinum</i>	Sugar maple.
<i>Acer polymorphum</i>	Japanese maple.
<i>Ackania malvaviscus</i>	Turk's cap.
<i>Æsculus Californica</i>	California buckeye.
<i>Æsculus hippocastanum</i>	European horse-chestnut.
<i>Æsculus pavia rubra</i>	Red-flowered buckeye.
<i>Albizia lophantha</i>	Silver-tassel acacia.
<i>Alnus serrulata</i>	Saw-leaved alder.
<i>Aloysia citriodora</i>	Sweet-scented verbena.
<i>Ailanthus glandulosa</i>	Tree of heaven.
<i>Amorpha crocea lanata</i>	Glabra.
<i>Amorpha Lewisii</i>	
<i>Amorpha fragrans nana</i>	
<i>Amorpha fruticosa</i>	False indigo.
<i>Ampelopsis quinquefolia</i>	Virginia creeper.
<i>Ampelopsis Veitchii</i>	
<i>Amygdalus communis</i>	Almond.
<i>Amygdalus purpurea</i>	Purple-leaved peach.
<i>Anona cherimolia</i>	
<i>Appelandra aurantiaca</i>	
<i>Aralia papyrifera</i>	Chinese paper plant.
<i>Aralia Seiboldii</i>	Seibold's aralia.
<i>Aralia spinosa</i>	Hercules' club.
<i>Auracaria Bidwellii</i>	Morton Bay pine.
<i>Auracaria Cookii</i>	Cook Island pine.
<i>Auracaria imbricata</i>	Chili pine.
<i>Auracaria excelsa</i>	Norfolk Island pine.
<i>Arbutus Unedo</i>	Strawberry tree.
<i>Arbutus Menziesii</i>	Madrona tree.
<i>Aristoclochia sipho</i>	Dutchman's pipe.
<i>Armeria Formosa</i>	Portuguese armeria.
<i>Artemesia glauca</i>	Glaceous southern wood.
<i>Aucuba Japonica</i>	Japan laurel.
<i>Baccharis Douglasii</i>	Sea groundsel.
<i>Bambusa falcata</i>	Nepaul bamboo.
<i>Bambusa fortunei</i>	Fortune bamboo.
<i>Bambusa arundinacea</i>	
<i>Bambusa Metaki</i>	
<i>Banksia Cunninghamii</i>	
<i>Berberis vulgaris</i>	Common barberry.
<i>Berberis Darwinii</i>	Darwin's barberry.
<i>Berberis dulcis</i>	Sweet barberry.
<i>Berberis stenophylla</i>	Narrow-leaved barberry.
<i>Berberis nervosa</i>	Nerved barberry.
<i>Betula lenta</i>	Cherry birch.
<i>Betula lutea</i>	Yellow birch.
<i>Betula laciniata</i>	
<i>Betula papyrifera</i>	
<i>Betula populifolia</i>	Poplar-leaved birch.
<i>Betula pendula</i>	Weeping birch.
<i>Bignonia radicans</i>	Trumpet vine.
<i>Bignonia jasminoides</i>	
<i>Bocconia Japonica</i>	
<i>Bouvardea fragrans</i>	
<i>Boldoa fragrans</i>	
<i>Brahea filamentosa</i>	California fan palm.
<i>Brahea Mannii</i>	Arizona fan palm.
<i>Brugmansia suaveolens</i>	Trumpet flower.
<i>Buddlea Lindleyana</i>	
<i>Buddlea globosa</i>	
<i>Buxus sempervirens</i>	Tree box.
<i>Buxus argentea</i>	Silver tree box.
<i>Callistris cupressiformis conifer</i>	New South Wales callistris.
<i>Callistemon saligna</i>	
<i>Callistemon lanceolata</i>	Bottle brush.
<i>Callistemon rugulosiss</i>	
<i>Callistemon linearis</i>	
<i>Callistemon brachyandrus</i>	
<i>Calycanthus Floridus</i>	



## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
<i>Calothamnus purpurea</i> .....	.....
<i>Calothamnus quadripedus</i> .....	.....
<i>Calystachys lanceolata</i> .....	.....
<i>Camellia Japonica</i> .....	..... Camellia tree.
<i>Carya olivæformis</i> .....	..... Pecan nut.
<i>Cassia corymbosa</i> .....	..... Buenos Ayres cassia.
<i>Cassia floribunda</i> .....	..... Tall cassia.
<i>Caragana altagana</i> .....	.....
<i>Casuarinus stricta</i> .....	.....
<i>Casuarina suberosa</i> .....	..... Cork-bark horsetail pine.
<i>Casuarina glauca</i> .....	..... Glaceous horsetail pine.
<i>Casuarina equisetæfolia</i> .....	.....
<i>Catalpa bignonioides</i> .....	..... Catalpa tree.
<i>Catalpa Kaemfera</i> .....	..... Japan catalpa.
<i>Ceanothus Africana</i> .....	..... African ceanothus.
<i>Ceanothus Californica</i> .....	..... California lilac.
<i>Ceanothus Azureus</i> .....	..... Large-flowered California lilac.
<i>Cedrus Lebanii</i> .....	..... Cedar of Lebanon.
<i>Cedrus Deodara</i> .....	..... East Indian tree of God.
<i>Cedrus Atlantica</i> .....	..... Mount Atlas cedar.
<i>Celtus Australis</i> .....	..... European nettle tree.
<i>Celtus occidentalis</i> .....	..... Sugar nettle tree.
<i>Celtus cordata</i> .....	.....
<i>Cerasus mollis</i> .....	..... Bird cherry.
<i>Cerasus laurus</i> .....	..... English laurel.
<i>Ceratonia Siligna</i> .....	..... St. John's bread.
<i>Cercis Canadensis</i> .....	.....
<i>Cestrum aurantiacum</i> .....	..... Yellow cestrum.
<i>Chamærops excelsa</i> .....	..... Australian palm.
<i>Chamærops humilis</i> .....	..... European fan palm.
<i>Chronanthus Virginicus</i> .....	..... Fringe tree.
<i>Chorozema ilexifolia</i> .....	.....
<i>Cistus ladaniferus</i> .....	..... Rock rose.
<i>Cistus ladaniferus maculata</i> .....	..... Spotted cistus.
<i>Cistus rosea</i> .....	..... Rose-colored cistus.
<i>Citrus aurantacea</i> .....	..... Orange tree.
<i>Citrus Chinensis</i> .....	..... Chinese orange.
<i>Citrus trifoliata</i> .....	..... Three-leaved orange.
<i>Clematis aristata</i> .....	..... Virgin's bower.
<i>Clematis coccinea</i> .....	..... Virgin's bower.
<i>Clematis Jackamii</i> (in variety) .....	..... Japanese clematis.
<i>Clerodendron speciosum</i> .....	..... Shrubby clerodendron.
<i>Clianthus Damperii</i> .....	..... Spotted clianthus.
<i>Clianthus puniceus</i> .....	..... Parrot's-bill flower.
<i>Cobea scandens</i> .....	..... Mexican cobea.
<i>Coccoloba platyclada</i> .....	.....
<i>Colletia ferox</i> .....	.....
<i>Coprosma Baueriana</i> .....	..... Green-leaved coprosma.
<i>Coprosma variegata</i> .....	..... Green-leaved coprosma.
<i>Colutea cruenta</i> .....	.....
<i>Cordylin indivisa</i> .....	..... New Zealand cabbage palm.
<i>Cordylin Australis</i> .....	..... Australian cabbage palm.
<i>Coriaria myrtifolia</i> .....	..... Myrtle-leaved coriaria.
<i>Coriaria ruscifolia</i> .....	..... Ruscus-leaved coriaria.
<i>Comus pubescens</i> .....	..... Dogwood.
<i>Comus sanguinea</i> .....	..... Blood-color dogwood.
<i>Coronilla glauca</i> .....	..... Glaucus coronilla.
<i>Corylus Americana</i> .....	..... Hazelnut.
<i>Corypha Australis</i> .....	..... Prickly-stemmed fan palm.
<i>Corynocarpus lavigatus</i> .....	.....
<i>Cotoneaster buxifolia</i> .....	.....
<i>Cotoneaster thymifolia</i> .....	.....
<i>Cratægus oxyacantha</i> .....	..... Hawthorn.
<i>Cratægus pyracantha</i> .....	..... Burning bush.
<i>Cryptomeria elegans</i> .....	..... Elegant cryptomeria.
<i>Cryptomeria Japonica</i> .....	..... Japan redwood.
<i>Cuppressus macrocarpa</i> .....	..... Monterey cypress.
<i>Cuppressus Lawsoniana</i> .....	..... Lawson's cypress.
<i>Cuppressus McNabiana</i> .....	..... McNab's cypress.
<i>Cuppressus pyramidalis</i> .....	..... Pyramid cypress.

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
<i>Cuppressus funebris</i> .....	Mournful cypress.
<i>Cuppressus pendula glauca</i> .....	Weeping cypress.
<i>Cuppressus torulosa</i> .....	.....
<i>Cuppressus Chinensis</i> .....	Chinese cypress.
<i>Cydmbia Japonica</i> .....	Japan quince.
<i>Cytissus alpena</i> .....	Laburnum Scotch.
<i>Cytissus leoparius</i> .....	Scotch broom.
<i>Cytissus laburnum</i> .....	Golden chain.
<i>Cytissus hirsutus</i> .....	Hairy-stemmed broom.
<i>Daphne laurifolia</i> .....	Spurge laurel.
<i>Daphne odorata</i> .....	Sweet-scented daphne.
<i>Datura arborea</i> .....	Tree datura.
<i>Deutzia crenata flora plena</i> .....	Double flowering deutzia.
<i>Deutzia gracilis</i> .....	Dwarf deutzia.
<i>Dictamnus fraxinella</i> .....	.....
<i>Deeringea celosioides</i> .....	.....
<i>Deeringea celosioides variegata</i> .....	.....
<i>Diosphorus Virginiana</i> .....	Persimmon.
<i>Diervillea speciosa</i> .....	Bush honeysuckle.
<i>Diosma ericifolia</i> .....	Breath of heaven.
<i>Dipsacus pulonum</i> .....	.....
<i>Dolichus lablab</i> .....	Australian pea vine.
<i>Eleagnus aurea</i> .....	Golden variegated eleagnus.
<i>Eccecmocarpus scabra</i> .....	Climber.
<i>Echium Lindleyana</i> .....	.....
<i>Echium strictum</i> .....	.....
<i>Echium candicans</i> .....	.....
<i>Edwardsia microphylla</i> .....	.....
<i>Erica arborea</i> .....	Heath.
<i>Erica Mediterranea</i> .....	Heath.
<i>Erica hymalis</i> .....	.....
<i>Erythrinus crita galli</i> .....	.....
<i>Escalonia floribunda</i> .....	.....
<i>Escalonia macrantha</i> .....	Granada escalonia.
<i>Escalonia rubra</i> .....	Red-flowering escalonia.
<i>Escalonia Montevidensis</i> .....	White escalonia.
<i>Eucalyptus amygdalina</i> .....	Peach-leaved gum.
<i>Eucalyptus citriodora</i> .....	.....
<i>Eucalyptus corymbosa</i> .....	.....
<i>Eucalyptus globulus</i> .....	Blue gum.
<i>Eucalyptus gonicalix</i> .....	.....
<i>Eucalyptus peperita</i> .....	.....
<i>Eucalyptus pauciflora</i> .....	.....
<i>Eucalyptus polyanthemus</i> .....	.....
<i>Eucalyptus Pressii</i> .....	.....
<i>Eucalyptus rostrata</i> .....	.....
<i>Eucalyptus Ribbonii</i> .....	.....
<i>Eucalyptus obliqua</i> .....	Oblique gum.
<i>Eucalyptus paniculatus</i> .....	.....
<i>Eucalyptus stricta</i> .....	.....
<i>Eucalyptus vitatta</i> .....	.....
<i>Eucalyptus viminalis</i> .....	Stringy bark gum.
<i>Eucalyptus saligna</i> .....	Willow-leaved gum.
<i>Eugenia latifolia</i> .....	Leather-leaved myrtle.
<i>Euonymus Japonica</i> .....	Japan spindle tree.
<i>Euonymus Japan aurea</i> .....	Golden variegated spindle tree.
<i>Euonymus radicans variegata</i> .....	White-leaved spindle tree.
<i>Euonymus argentea</i> .....	Gray spindle tree.
<i>Euphorbia variegata</i> .....	Variegated euphorbia.
<i>Eupatorium ageratoides</i> .....	Snakeroot.
<i>Fabiana imbricata</i> .....	.....
<i>Fagus sylvatica</i> .....	Common beech.
<i>Fagus purpurea</i> .....	Blood beech.
<i>Ficus macrophylla</i> .....	.....
<i>Ficus elastica</i> .....	India-rubber tree.
<i>Ficus carica</i> .....	Fig tree.
<i>Forsythia viridissima</i> .....	Green-stemmed forsythia.
<i>Fraxinus excelsa</i> .....	European ash.
<i>Fraxinus Oregonia</i> .....	Oregon ash.
<i>Fraxinus pendula</i> .....	Weeping ash.

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
<i>Fraxinus pendula aurea</i> .....	Golden-bark weeping ash.
<i>Frenilla Australis</i> .....	New Holland pine.
<i>Frenilla rhomboides</i> .....	Rhomboid pine.
<i>Galium aparine</i> .....	
<i>Genista linifolium</i> .....	Yellow genista.
<i>Genista tinctoria</i> .....	
<i>Genista scoparia</i> .....	
<i>Geitonoplesium cymosum</i> .....	American honey locust.
<i>Gleditschia triacantha</i> .....	
<i>Goodia latifolia</i> .....	
<i>Goodia medicaginea</i> .....	
<i>Grevillea robusta</i> .....	
<i>Gymnocladus Canadensis</i> .....	
<i>Habrothamnus elegans</i> .....	
<i>Habrothamnus coccinea</i> .....	
<i>Hakea salicina</i> .....	
<i>Hakea acicularis</i> .....	
<i>Hakea ulicina</i> .....	
<i>Hakea leucoptera</i> .....	
<i>Hakea modosa</i> .....	
<i>Hakea verrucosa</i> .....	
<i>Hardenbergia monophylla</i> .....	
<i>Hedera felix</i> .....	
<i>Hedera variegata</i> .....	
<i>Helianthemum roseum</i> .....	
<i>Hibiscus pungens</i> .....	
<i>Hibiscus syriacus</i> .....	
<i>Hydrangea paniculata</i> .....	
<i>Hymenosporum flavum</i> .....	
<i>Hypericum canariensis</i> .....	
<i>Hypericum calycinum</i> .....	
<i>Hypericum patulum</i> .....	
<i>Indigofera Australis</i> .....	
<i>Indigofera tinctoria</i> .....	
<i>Iacoma speciosa</i> .....	
<i>Inga dulcis</i> .....	
<i>Isochroma tubulosa</i> .....	
<i>Isochroma coccinea</i> .....	
<i>Ilex aquifolia</i> .....	English holly.
<i>Jacaranda minosæfolia</i> .....	
<i>Jasminum aurea</i> .....	Yellow jasmine.
<i>Jasminum alba</i> .....	White jasmine.
<i>Juglans regia</i> .....	English walnut.
<i>Juglans nigra</i> .....	Eastern black walnut.
<i>Juglans Californica</i> .....	California walnut.
<i>Juniperus Bermudiana</i> .....	Bermuda juniper.
<i>Juniperus Phœnicia</i> .....	
<i>Juniperus Japonica alba</i> .....	
<i>Juniperus prostrata</i> .....	
<i>Juniperus communis</i> .....	
<i>Juniperus squamatosæ</i> .....	
<i>Juniperus Sabina</i> .....	
<i>Juniperus compacta</i> .....	
<i>Juniperus Lycea</i> .....	
<i>Juniperus Hibernica</i> .....	
<i>Juniperus densa</i> .....	
<i>Juniperus Japonica</i> .....	
<i>Juniperus Japonica variegata</i> .....	
<i>Juniperus Virginiana</i> .....	
<i>Justicia carnea</i> .....	
<i>Kennedyæ macrophylla</i> .....	
<i>Kerria Japonica</i> .....	
<i>Kolreuteria paniculata</i> .....	
<i>Lantana superba</i> .....	
<i>Laria Europea</i> .....	
<i>Lagerstræmia Indica</i> .....	
<i>Laurus camphora</i> .....	Camphor tree.
<i>Laurus glandulosa</i> .....	
<i>Laurus Indica</i> .....	
<i>Laurus nobilis</i> .....	Sweet bay.



## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
Laurus lusitameo	Portugal laurel.
Lavatera arborea	Tree mallow.
Lavatera arborea variegata	
Lavendula spica	Lavender.
Lavendula stæchas	
Leonotis leonaria	
Leptospermum ericifolia	New Zealand tea tree.
Leptospermum lævigatum	
Leptospermum scoparia	
Libocedrus decurrens	Port Orford cedar.
Libonia floribunda	
Leucodendron argenteum	
Ligustrum Californicum	California privet.
Ligustrum Japonicum	
Ligustrum vulgaris	
Leriodendron tulipifera	Tulip tree.
Lonicera brachypoda	
Lonicera chamæcerasus alba	
Lonicera cornicularis	
Lonicera Californica	
Lonicera grandifloris	
Lonicera Japonica	
Lonicera pulcherrima	
Lonicera rubra	
Lonicera Tartarica splendens	
Lotus corniculatum	Horned lotus.
Lotus tetragonolobus	Bird's-foot clover.
Maelura aurantiaca	Osage orange.
Magnolia grandiflora	
Magnolia soulangeana gracilis	
Stelata purpurea	
Mahonia aquifolium	
Mahernia odorata	
Mandevillea suaveolens	Sweet-scented mandevillea.
Maytemes Chilensis	
Melaleuca armellaris	
Melaleuca ericifolia	
Melaleuca hypericifolia	
Melaleuca parviflora	
Melaleuca incana	
Melaleuca genistifolia	
Melanthus major	
Mespilis Japonica	Japanese medlar.
Metrosideros tomentosa	
Morus alba	White mulberry.
Morus Japonica	Japanese mulberry.
Morus nigra	Black mulberry.
Myoporum maculata	
Myrica Californica	Wax berry.
Myrsiphylla asparagoides	
Myrtus communis	
Myrtus latifolia	
Nandina domestica	
Negundo malinifolia	
Negundo aceroides	
Nerium splendens	
Nerium alba	
Neiremburgia gracilis	
Netera depressa	
Olea sativa	
Passiflora cercula	
Paulownia imperialis	
Philadelphus coronaria	
Phillyrea latifolia	
Phœnix dactylifera	
Photinia serrulata	
Picea amabilis	California silver fir.
Picea magnifica	
Picea Nordmaniana	Nordman's silver spruce.
Pimelia Australis	



## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
<i>Pinus cembra</i> .....	Siberian pine.
<i>Pinus Coulterii</i> .....	Coulter's pine.
<i>Pinus densiflora</i> .....	
<i>Pinus excelsa</i> .....	Lofty Indian pine.
<i>Pinus Hamiltonii</i> .....	Hamilton's pine.
<i>Pinus Halapensis</i> .....	Aleppo pine.
<i>Pinus Jeffreyana</i> .....	Jeffrey's pine.
<i>Pinus Larico</i> .....	Corsican pine.
<i>Pinus Larico calabrica</i> .....	
<i>Pinus insignis</i> .....	Monterey pine.
<i>Pinus longifolia</i> .....	Long-leaved pine.
<i>Pinus maritima</i> .....	French pine.
<i>Pinus Massoniana</i> .....	Masson's pine.
<i>Pinus mitis</i> .....	Yellow pine.
<i>Pinus monticola</i> .....	Mountain pine.
<i>Pinus muricata</i> .....	Bishop's pine.
<i>Pinus mugho</i> .....	Mugho pine.
<i>Pinus Montezuma</i> .....	Mexican pine.
<i>Pinus pinea</i> .....	Italian stone pine.
<i>Pinus ponderosa</i> .....	Heavy-wooded pine.
<i>Pinus rubra</i> .....	
<i>Pinus Strobus</i> .....	Weymouth pine.
<i>Pinus Sabiniana</i> .....	Sabin's pine.
<i>Pinus Tadea</i> .....	
<i>Pinus inops</i> .....	Jersey scrub pine.
<i>Pinus radiata</i> .....	
<i>Pinus tomentosa</i> .....	
<i>Pinus parviflora</i> .....	
<i>Pinus Torreyana</i> .....	Torrey's pine.
<i>Pinus Lambertiana</i> .....	Sugar pine.
<i>Pinus Austriaca</i> .....	Austrian pine.
<i>Pinus Sylvestris</i> .....	Scotch pine.
<i>Pistacia vera</i> .....	Cashaw nut.
<i>Pittosporum eugeneoides</i> .....	Turpentine tree.
<i>Pittosporum crassifolium</i> .....	Crassula foliaged pittosporum.
<i>Pittosporum rhombifolium</i> .....	
<i>Pittosporum eriocarpum</i> .....	
<i>Pittosporum tobira</i> .....	Japanese pittosporum.
<i>Pittosporum nigrum</i> .....	Black turpentine.
<i>Planera cuspidata</i> .....	Planer tree.
<i>Platanus occidentalis</i> .....	Buttonwood.
<i>Platanus orientalis</i> .....	Oriental plane.
<i>Plumbago capensis</i> .....	Lead plant.
<i>Plumbago larpenta</i> .....	
<i>Poinciana pulcherrima</i> .....	
<i>Poinciana Gillesii</i> .....	
<i>Polygala grandiflora</i> .....	
<i>Polygala Dalmasiana</i> .....	Milkwort.
<i>Polygala speciosa</i> .....	
<i>Populus balsamina</i> .....	Balsam poplar.
<i>Populus nigra</i> .....	Black poplar.
<i>Populus argentea</i> .....	Silver poplar.
<i>Populus fastigiata</i> .....	Italian poplar.
<i>Pomaderris lanifera</i> .....	
<i>Pomaderris aspera</i> .....	
<i>Pritchardia filifera</i> .....	California fan palm.
<i>Psoralea glandulosa</i> .....	
<i>Prostranthera læcanthus</i> .....	
<i>Prostranthera minea</i> .....	
<i>Prostranthera Liebercii</i> .....	
<i>Ptelea trifoliata</i> .....	Hop tree.
<i>Punica gradatum</i> .....	
<i>Pyrus Japonica</i> .....	Japan quince.
<i>Pyrus malus</i> .....	Apple tree.
<i>Prunus cerasus</i> .....	Double flowering plum.
<i>Prunus myrobalan</i> .....	Myrobalan plum.
<i>Prunus triloba</i> .....	
<i>Quercus robur</i> .....	English oak.
<i>Quercus suberosa</i> .....	Cork oak.
<i>Quercus densiflora</i> .....	California live oak.

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
<i>Retinospora obtusa</i>	Japan cypress.
<i>Retinospora ericifolia</i>	Heath-like retinospora.
<i>Rhamnus Californica</i>	California coffea.
<i>Rhaphiolepis ovata</i>	
<i>Rhaphiolepis Indica</i>	
<i>Rhafis flabelliformis</i>	
<i>Rhododendron ponticum</i>	
<i>Rhododendron Catawbiense</i>	Catawba rhododendron.
<i>Rhododendron hybridum</i>	Hybrid.
<i>Rhododendron maximum</i>	Great laurel rhododendron.
<i>Rhododendron Dalhousianum</i>	Dalhousi rhododendron.
<i>Rhododendron nobleanum</i>	
<i>Rhododendron glaucum</i>	Rose bay.
<i>Rhododendron Hodgsonii</i>	
<i>Rhus copallina</i>	Dwarf sumac.
<i>Rhus cotinus</i>	Smoke tree.
<i>Rhus toxicodendron</i>	Poison oak.
<i>Rhus coriaria</i>	Sicilian sumac.
<i>Ribes grossularia</i>	Wild gooseberry.
<i>Ribes sanguinea</i>	Wild currant.
<i>Robinia pseud-acacia</i>	Locust.
<i>Rochea falcata</i>	
<i>Rosemarinus officinalis</i>	Rosemary.
<i>Rubus rosæfolius</i>	Christmas.
<i>Salisburia adiantifolia</i>	Maiden-hair tree.
<i>Salix alba</i>	White willow.
<i>Salix carpia</i>	Black willow.
<i>Salix Babylonica</i>	Weeping willow.
<i>Sambucus niger</i>	Black elder.
<i>Sambucus niger fol argenteis (variegated)</i>	
<i>Sambucus racemosa purpurea</i>	
<i>Scidioptys verticillata</i>	Umbrella pine.
<i>Schinus molle</i>	False pepper.
<i>Schinus terebinthefolia</i>	
<i>Schotia latifolia</i>	Broad-leaved schotia.
<i>Schotia tamarindifolia</i>	
<i>Sequoia gigantea</i>	Big tree of California.
<i>Sequoia sempervirens</i>	California redwood.
<i>Sida pulchella</i>	
<i>Solanum capsicastrum</i>	Capsicum-like solanum.
<i>Solanum robustum</i>	
<i>Solanum laciniatum</i>	Cut-leaved solanum.
<i>Sollya heterophylla</i>	Gem of Swan River.
<i>Sophora Japonica</i>	
<i>Sophora Japonica pendula</i>	
<i>Spartium junceum</i>	
<i>Sphæralcea Caroliniana</i>	Globe marshmallow.
<i>Spiræa aerifolia</i>	Spirea.
<i>Spiræa Billiardii</i>	
<i>Spiræa Japonica</i>	
<i>Spiræa Nobleii</i>	
<i>Spiræa opulifolia</i>	Native meadow sweet.
<i>Spiræa plumosa</i>	
<i>Spiræa prunifolia</i>	
<i>Spiræa Reevesii</i>	
<i>Spiræa Thunbergii</i>	
<i>Sterculia diversifolia</i>	Australian flame tree.
<i>Sterculia platanifolia</i>	
<i>Stewartia pentagyna</i>	
<i>Swainsonia alba</i>	
<i>Swainsonia galegifolia</i>	
<i>Syringa vulgaris</i>	Common lilac.
<i>Syringa Persica</i>	Persian lilac.
<i>Tamarix gallica</i>	European tamarix.
<i>Taxodium distyichum</i>	Deciduous cypress.
<i>Taxus baccata</i>	English yew.
<i>Taxus cuspidata</i>	Japan yew.
<i>Taxus fastigiata</i>	Pyramidal yew.
<i>Tecoma capensis</i>	
<i>Thusa gigantea</i>	Gigantic cedar.

## TREES AND SHRUBS—Continued.

Botanic Name.	Common Name.
<i>Thuja occidentalis</i> .....	Western cedar.
<i>Thuja orientalis</i> .....	Chinese arbor vitae.
<i>Thea viridis</i> .....	Tea plant.
<i>Thujopsis dolabrata</i> .....	Hatchet-leaved thujopsis.
<i>Thujopsis dolabrata variegata</i> .....	
<i>Tilia Americana</i> .....	American linden.
<i>Tilia Europea</i> .....	European linden.
<i>Tristania conferta</i> .....	
<i>Ulex Europea</i> .....	English hurty-furty.
<i>Ulmus Americana</i> .....	American elm.
<i>Ulmus campestris</i> .....	English elm.
<i>Ulmus fulva</i> .....	Slippery elm.
<i>Ulmus pendula</i> .....	Weeping elm.
<i>Ulmus suberosa</i> .....	Cork-bark elm.
<i>Ulmus</i> .....	Wheatley's elm.
<i>Veronica Andersonii</i> .....	Blue veronica (speedwell).
<i>Veronica salicifolia</i> .....	Willow-leaved veronica.
<i>Veronica paniculata</i> .....	Paniculate-flowered veronica.
<i>Veronica parviflora</i> .....	Veronica.
<i>Veronica decussata</i> .....	Veronica.
<i>Viburnum opulus</i> .....	Snowball.
<i>Viburnum tinus</i> .....	
<i>Viburnum laurustinus</i> .....	
<i>Viburnum tinus grandiflora</i> .....	
<i>Virgillea lutea</i> .....	
<i>Virgillea capensis</i> .....	
<i>Vitex agnus-castus</i> .....	
<i>Weigelia rosea</i> .....	
<i>Weigelia rosea variegata</i> .....	
<i>Wistaria linensis</i> .....	
<i>Wistaria linensis alba</i> .....	
<i>Widdringtonia cupressoides</i> .....	
<i>Wigandia macrophylla</i> .....	

## CATALOGUE OF HERBACEOUS AND FLOWERING PLANTS IN THE GOLDEN GATE PARK.

Botanic Name.	Common Name.
<i>Abronia arenaria</i> .....	Sand verbena.
<i>Acharanthus</i> (in variety).....	Chaff flower.
<i>Aconitum album</i> .....	White monk's-hood.
<i>Adonis vernalis</i> .....	Spring flowering adonis.
<i>Agapanthus umbellatus</i> .....	African lily.
<i>Agathea celestis</i> .....	Blue marguerite.
<i>Agave Americana</i> .....	Century plant.
<i>Agrostenma coronarium</i> .....	Rose campion.
<i>Ageratum Mexicanum</i> .....	Kiss me's.
<i>Allium unifolium</i> .....	Onion lily.
<i>Acanthus mollis</i> .....	
<i>Acroclium roseum</i> .....	Everlasting.
<i>Agrostenma</i> .....	Jove's flower.
<i>Alonsoa Warszewiczi</i> .....	Mask flower.
<i>Altemanthera</i> (in variety).....	
<i>Allysium variegatum</i> .....	Sweet allysium.
<i>Amaranthus</i> (in variety).....	Love lies bleeding.
<i>Amaryllis</i> (in variety).....	Belladonna, etc.
<i>Anagalis Brewerii</i> .....	
<i>Anemone Japonica</i> .....	Wind flower.
<i>Anthemis coronaria</i> .....	Chamomile.
<i>Antirrhinum major</i> .....	Snapdragon.
<i>Aquilegia</i> (in variety).....	Columbine.
<i>Arabis alpina</i> .....	Rock cress.
<i>Argemone Mexicanum</i> .....	Prickly poppy.



## HERBACEOUS AND FLOWERING PLANTS—Continued.

Botanic Name.	Common Name.
<i>Artemesia absinthium</i> .....	Wormwood.
<i>Astragalus mollissima</i> .....	Rattle-weed.
<i>Balsamina Hortensia</i> .....	Balsam.
<i>Bambusa falcata</i> .....	Spear bamboo.
<i>Bambusa fortunei</i> .....	Fortune's bamboo.
<i>Bambusa arundinaceæ</i> .....	Reed bamboo.
<i>Bambusa Metaki</i> .....	Japanese bamboo.
<i>Baptisia alba</i> .....	False indigo.
<i>Berberis vulgaris</i> .....	Wintercress.
<i>Bellis perennis</i> .....	Daisy.
<i>Beta Chilensis</i> .....	Chili beet.
<i>Bignonia radicans</i> .....	Trumpet creeper.
<i>Brodiaea Californica</i> .....	Brodie's lily.
<i>Browalia elata</i> .....	Blue scroph.
<i>Cacalia tessellata</i> .....	Tassel flower.
<i>Caladium esculentum</i> .....	Edible arum.
<i>Calceolaria shrubby</i> .....	Ladies' satchel.
<i>Calendula officinalis</i> .....	Pot marigold.
<i>Caliprora lutea</i> .....	Lily of beauty.
<i>Calochortus elegantissimus</i> .....	Mariposa lily.
<i>Campanula media</i> .....	Canterbury bell.
<i>Canna Indica</i> .....	Indian shot.
<i>Canna Ehemannii</i> .....	Eheman's canna.
<i>Celosia cristata</i> .....	Cock's-comb.
<i>Celosia plumosa</i> .....	Plumed celosia.
<i>Centaurea candidissima</i> .....	Dusty miller.
<i>Centaurea cyanus</i> .....	Corn flower.
<i>Centaurea gymnocarpa</i> .....	Centaury.
<i>Centranthus rubra</i> .....	Red valerian.
<i>Cerastrium tomentosum</i> .....	Mouse-ear chickweed.
<i>Chamœpuce diacantha</i> .....	Fishbone thistle.
<i>Cheiranthus cheire</i> .....	Wallflower.
<i>Chrysanthemum sinensis</i> .....	Chinese chrysanthemum.
<i>Chrysanthemum Japonicum</i> .....	Japanese chrysanthemum.
<i>Chrysanthemum frutescens</i> .....	Marguerite.
<i>Chicorium entybus</i> .....	Chicory.
<i>Cineraria hyb. (in variety)</i> .....	
<i>Cineraria maritima</i> .....	Foliage cineraria.
<i>Clarkia pulchella</i> .....	Chippy flower.
<i>Clematis aristata</i> .....	Virgin's bower.
<i>Clematis Jackmanii</i> .....	Jackman's clematis.
<i>Clerodendron Balfourii</i> .....	Chance plant.
<i>Cobea scandens</i> .....	Mexican climber.
<i>Coleus Verschafeldtii</i> .....	German nettle.
<i>Collinsia bicolor</i> .....	Bear balm.
<i>Commelyna celestis</i> .....	Spiderwort.
<i>Convalaria majalis</i> .....	Lily of the valley.
<i>Convolvulus minor</i> .....	Morning glory.
<i>Convolvulus altheaoides</i> .....	Bird weed.
<i>Coreopsis coronata</i> .....	Tickseed sunflower.
<i>Coronilla glauca</i> .....	Bladder senna.
<i>Cosmos bipinnata</i> .....	Star flower.
<i>Crassula floribunda</i> .....	Tree-flowering crassula.
<i>Crepis rubra</i> .....	Red hawkweed.
<i>Cyclobotria speciosa</i> .....	Droop lily.
<i>Cynoglossum grande</i> .....	Hound's tongue.
<i>Cyperus papyrus</i> .....	Egyptian paper reed.
<i>Cuphea platycentra</i> .....	Cigar flower.
<i>Dahlia hybrida</i> .....	Dahlia.
<i>Dasyllirion Wheelerii</i> .....	Wheeler's dasyllirion.
<i>Delphinium (in variety)</i> .....	Larkspur.
<i>Dianthus barbatus</i> .....	Sweet William.
<i>Dianthus caryophyllus</i> .....	Carnation.
<i>Dianthus sinensis</i> .....	China pink.
<i>Dictamnus fraxinella</i> .....	Ash-leaved dictamnus.
<i>Dielytra spectabilis</i> .....	Bleeding heart.
<i>Digitalis purpurea</i> .....	Foxglove.
<i>Dipsacus fullonum</i> .....	Teasle.
<i>Eccremocarpus scabra</i> .....	Spray flower.
<i>Echeveria secunda glauca</i> .....	Hen and chickens.



## HERBACEOUS AND FLOWERING PLANTS—Continued.

Botanic Name.	Common Name.
Echinocactus vulgare	Melon cactus.
Entelia arborescens	New Zealand cork tree.
Epiphyllum grandiflorum	Cactus.
Eupatorium ageratoides	White snakeroot.
Eupatorium triste	
Fourcroya Australis	Southern fourcroya.
Fuchsia (in variety)	Fuchsia.
Funkia (in variety)	Daly lily.
Funkia Japonica	Japanese lily.
Gaillardia picta	Gaillardia.
Galium aparium	Cleavers.
Gazania splendens	
Geitonoplesium cymosum	Scrambling lily.
Geranium (in variety)	
Gillia Californica	Dell flower.
Gladiolus hybrida	Sword-leaved iris.
Geum atro-sanguineum	Avens.
Glaucium corniculatum	Horned poppy.
Gnaphalium lanatum	Woolly eidleweis.
Godetia rosea	California rosy godetia.
Gomphrena globosa	Globe amaranth.
Gypsophylla elegans	Snowflakes.
Helianthemum roseum	Sun rose.
Helianthus Californica	Sunflower.
Helichrysum hybrida	Everlasting flower.
Heliothopium Peruvianum	Heliotrope.
Hedychium Gardnerianum	Gardner's ginger.
Heleborous niger	Christmas rose.
Hemerocallis flava	Yellow day lily.
Hyacinthus candicans	Hyacinth.
Hibiscus (in variety)	
Humea elegans	Elegant humea.
Iberis coronaria	Candytuft.
Iberis perennis	Perennial candytuft.
Iris Kiamperii	Fleur de Luce.
Ixia coccinea	Scarlet ixia.
Lathyrus latifolia	Everlasting pea.
Lathyrus odorata	Sweet pea.
Lophospermum scandens	Crested pea.
Lilium (in variety)	Lilies.
Linum speciosum (in variety)	Flax.
Linaria cymbalaria	Toad flax.
Lobelia cardinalis	Scarlet lobelia.
Lobelia erinus (in variety)	
Lupinus (in variety)	Common lupin.
Lychnis Chalcedonica	Scarlet lychnis.
Malva rosea	Flowering mallow.
Mammillaria speciosa	Cactus.
Martynia fragrans	Ram's-horn pickle.
Mirabilis jalapa	Four o'clock.
Matthiola hybrida	Stock.
Matricaria exenia	Wild chamomile.
Maurandria Barclayana	Barclay's climber.
Mimulus hybrida	Monkey flower.
Mimulus moschatus	Musk.
Myosotes palustris	Forget-me-not.
Mesembryanthemum (in variety)	Fig marigold.
Mesembryanthemum crystallinum	Ice plant.
Myrsiphyllum asparagoides	Smilax.
Narcissus latifolia (in variety)	Daffodil.
Nasturtium (in variety)	Indian cress.
Nelumbium luteum	Carolina lotus.
Nelumbium speciosum	Egyptian lotus.
Nemophylla insignis	Baby eyes.
Nepeta glechoma	Catnip.
Nigelia Hispanica	Love in mist.
Nolana atriplicifolia	Bellflower of Peru.
Nicotiana Virginicum	Tobacco plant.
Oenothera grandiflora	Evening primrose.
Opuntia Indica	Prickly pear cactus.

## HERBACEOUS AND FLOWERING PLANTS—Continued.

Botanic Name.	Common Name.
<i>Oxalis rosea</i> .....	Flowering oxalis.
<i>Phacelus multiflora</i> .....	Scarlet runner.
<i>Phacelus caracala</i> .....	Snail flower.
<i>Papaver somniferum</i> .....	Opium poppy.
<i>Papaver Orientalis</i> .....	Oriental poppy.
<i>Papaver bracteatum</i> .....	Crimson poppy.
<i>Pelargonium</i> (in variety).....	Lady Washington.
<i>Phlox decussata</i> .....	Ground phlox.
<i>Phlox Drummondii</i> .....	Annual phlox.
<i>Petunia hybrida</i> (in variety).....	Petunia.
<i>Penstemon centranthifolia</i> .....	Penstemon.
<i>Perilla Nankinensis</i> .....	
<i>Polyanthus tuberosa</i> .....	Tuberose.
<i>Primula polyantha</i> .....	Cowslip.
<i>Portulaca grandiflora</i> .....	Purslane.
<i>Potentilla coccinea</i> .....	Cinquefoil.
<i>Pyrethrum aurea</i> .....	Golden feverfew.
<i>Pyrethrum rosea</i> .....	
<i>Peonia officinalis</i> .....	Peony rose.
<i>Ranunculus Persicum</i> .....	Persian crowfoot.
<i>Resida odorata</i> .....	Mignonette.
<i>Richardia Ethiopica</i> .....	Calla lily.
<i>Ricinus communis</i> .....	Castor bean.
<i>Rivinia humilis</i> .....	
<i>Salpiglossis</i> (in variety).....	
<i>Salvia Africana</i> .....	Black sage.
<i>Salvia coccinea</i> .....	Crimson sage.
<i>Salvia elegans</i> .....	
<i>Salvia globosa</i> .....	
<i>Salvia patens</i> .....	
<i>Salvia rutilans</i> .....	
<i>Salvia splendens</i> .....	
<i>Sanvitalia procumbens</i> .....	
<i>Saponaria calabrioa</i> .....	Bouncing Bet.
<i>Saxifragea sarmentosa</i> .....	Strawberry geranium.
<i>Scabiosa atro-purpurea</i> .....	Mourning bride.
<i>Sedum</i> (in variety).....	Stone crop.
<i>Sempervivum Californicum</i> .....	California house leek.
<i>Silene pendula</i> .....	Catchfly.
<i>Smilax auriculata</i> .....	Cat's-brier.
<i>Solanum</i> (in variety).....	Jerusalem cherry.
<i>Spergula pilifera</i> .....	Flowering moss.
<i>Specularia speculum</i> .....	Venus looking-glass.
<i>Statice lemonium</i> .....	Sea lavender.
<i>Stellaria aurea</i> .....	Golden chickweed.
<i>Steria serrata</i> .....	Winter white.
<i>Tagetes</i> (in variety).....	Marigold.
<i>Thymus elegantissimum</i> .....	Thyme.
<i>Tigridea grandiflora</i> .....	
<i>Trachelium cœraleum</i> .....	Throat wort.
<i>Tradescantia elegans</i> .....	Wandering Jew.
<i>Tutelia lava</i> .....	Spring lily.
<i>Tutonia uvaria</i> .....	Red-hot poker.
<i>Tutonia flatum</i> .....	Weather-cock iris.
<i>Tropæolum canariensis</i> .....	Canary creeper.
<i>Verbena hybrida</i> .....	Verbena.
<i>Vinca major</i> .....	Periwinkle.
<i>Viola tricolor</i> .....	Pansy.
<i>Viola odorata</i> .....	Violet.
<i>Viscaria oculata</i> .....	Rock lychnis.
<i>Watsonia oreubens</i> .....	Watson's iris.
<i>Whittavia grandiflora</i> .....	
<i>Xeranthemum annuum</i> .....	
<i>Yucca gloriosa</i> .....	Adam's needle.
<i>Yucca aloëfolia</i> .....	
<i>Yucca filamentosa</i> .....	
<i>Yucca Whipplei</i> .....	
<i>Zinnia elegans</i> .....	

## HERBACEOUS AND FLOWERING PLANTS—Continued.

Botanic Name.	Common Name.
GRASSES.	
Agrostis nebulosa .....	.....
Agrostis plumosa .....	.....
Arundo conspicua .....	.....
Arundo donax .....	.....
Arundo donax variegata .....	.....
Briza major .....	Large quaking grass.
Briza minor .....	Small quaking grass.
Dactylus glomerata var. ....	.....
Eulalia Japonica .....	Japan ribbon grass.
Eulalia zebrina .....	.....
Erianthus ravenue .....	.....
Festuca glauca .....	.....
Gynerium argenteum .....	Pampas grass.
Gymnotrix latifolium .....	.....
Isolepis gracilis .....	Basket rush.
Panicum plicatum .....	.....
Phormium tenax .....	New Zealand flax.
Stipa pinnata .....	Feather grass.

## LIST OF PLANTS IN CONSERVATORY.

Abutilon Fire King .....	2
Abutilon Selborvianum Marmoratum .....	6
Abutilon Thomsonii .....	2
Abutilon Boule de Neige .....	.....
Abutilon Darwinii .....	2
Aspidistra surida variegata .....	10
Azaleas (50 varieties) .....	200
Asparagus plumosus nana .....	6
Asparagus plumosus .....	.....
Asparagus tenuissimus .....	2
Begonia rex (varieties) .....	250
Begonia metallica .....	50
Begonia nigra .....	50
Begonia odorata .....	75
Begonia semperflorens alba .....	200
Begonia semperflorens rubra .....	100
Begonia glaucophylla scadens .....	50
Bromelia Binotii .....	8
Caladiums (75 varieties) .....	200
Campsidium filicifolium .....	2
Cissus discolor .....	100
Coffea Arabica .....	2
Croton Disraeli .....	2
Croton lancifolium .....	2
Croton majesticum .....	5
Croton pictum .....	2
Croton mutabilis .....	2
Croton Youngii .....	.....
Croton undulatum .....	.....
Croton spirale .....	2
Croton nevilla .....	.....
Croton elegans .....	.....
Croton interruptum .....	2
Croton irregular .....	4
Croton variegatum .....	14
Croton aucubifolium .....	6
Croton Weismanii .....	7
Cyanophyllum magnificum .....	.....
Cyperus allernifolius .....	2
Cyperus variegatus .....	2
Dreffenbachia Bauseii .....	20
Dreffenbachia languinea picta .....	15
Dreffenbachia Marmorata .....	2
Dracæna Baptistii .....	2

Dracæna Bauseii	2
Dracæna Cooperii	25
Dracæna Goldieana	4
Dracæna Lindenii	3
Dracæna Guilfoylei	10
Dracæna nigro rubra	2
Dracæna terminalis	15
Echites nutans	
Echites nutans picta	
Ficus ripens	5
Ficus elastica	
Ficus Parcellii	
Fittonia argyroneura	150
Fittonia Pierceii	25
Fittonia Verschaffetii	100
Francisea Americana	6
Gardenia fortunii	6
Hibiscus Cooperii	10
Hibiscus rosa sinensis	5
Hoya Paxtonii	
Hoya carnosia picta	10
Isolepis miracilis	13
Maranta Mazellii	10
Maranta nutens	6
Maranta striata	8
Maranta regalis	2
Maranta zebrina	20
Maranta picta	2
Maranta Vanden Hickii	5
Monstera deliciosa	2
Musa Cavendishii	20
Musa vittata	2
Musa languinea	2
Musa zebrina	4
Musa ensete	2
Pandanus graminifolius	2
Pandanus Javanicus variegatus	10
Pandanus utilis	7
Pandanus Veitchii	10
Pandanus reflexus	1
Panicum variegatum	150
Peperomia argentea	20
Peperomia arifolia	1
Philodendron pertusum	2
Philodendron radiatum	1
Philodendron Lindenii	1
Philodendron crinipes	4
Passiflora quadrangularis	1
Passiflora quadrangularis variegatus	1
Sanchezia nobelis variegata	20
Tillandsia argentea	2
Tillandsia sanguinolenta	6
Tillandsia zebrina	1
Tradescantia discolor	2
Tradescantia ripens	10
Tradescantia tricolor	25

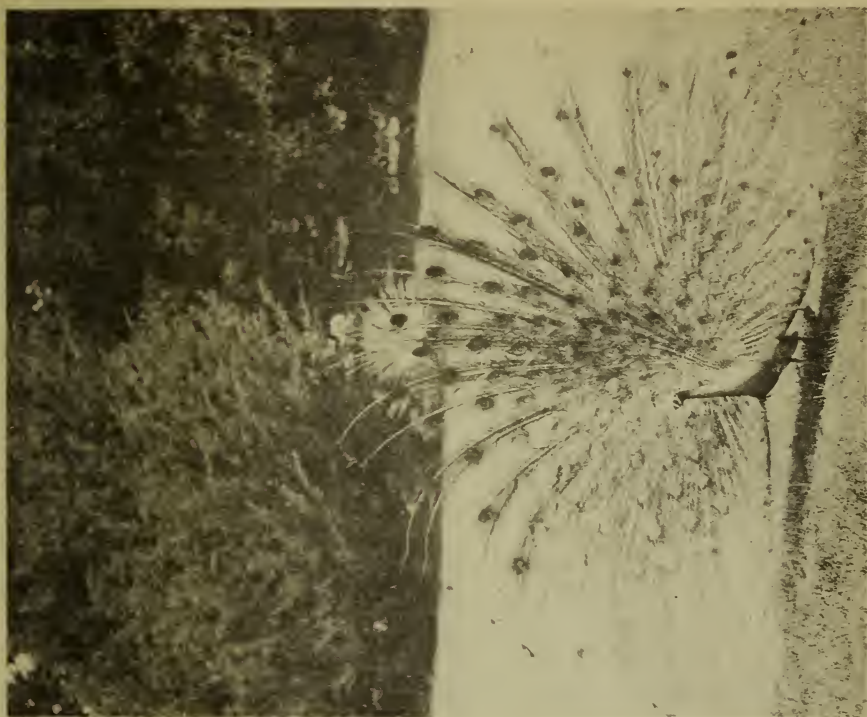
## GENERAL COLLECTION.

Acalypha macrophylla	2
Acalypha musaica	3
Acalypha Wilkesiana	2
Alocacia gigantea	10
Alocacia Jenningsii	2
Alocacia macrorrhiza variegata	6
Alocacia metallica	5
Alocacia Veitchii	2
Alocacia Sedenii	1
Alpina nutans	1
Anthurium crystallinum	7
Anthurium magnificum	10
Anthurium regale	2
Anthurium Veitchii	2
Anthurium Andreanum	1



<i>Anthurium cordifolium</i> .....	1
<i>Anthurium Williamsii</i> .....	1
<i>Anthurium Schirzerianum</i> .....	10
<i>Aralia Veitchii</i> .....	1
<i>Aralia papyrifera</i> .....	2
<i>Aralia Sieboldii</i> .....	2
<i>Ardisia crenulata</i> .....	1
<i>Artocarpus incisa</i> (bread-fruit tree).....	1
<i>Bertalonia guttata</i> .....	50
<i>Bilbergia vittata</i> .....	2
<i>Bilbergia guttata</i> .....	2
<i>Bilbergia farinosa</i> .....	2
<i>Bilbergia nutans</i> .....	2
<i>Bilbergia pallescens</i> .....	1
<i>Begonias</i> — <i>Fuchsoides</i> , <i>Rubra</i> , <i>Weltoniensis</i> , <i>Schmidtii</i> , <i>Alba picta</i> , <i>Gilsonii</i> , <i>Le-moinei</i> , <i>Elaine</i> , <i>Diadem</i> , <i>Pearl</i> , <i>Tuberous</i> , <i>Chelsea Giant</i> , <i>Cleopatra</i> , <i>Flambeau</i> , <i>Imperialis</i> , <i>Magnet</i> , <i>Piercii</i> , <i>Queen Victoria</i> , <i>Seraph</i> , <i>Starlights</i> , <i>Trojan</i> , <i>Philip De Ore</i> , <i>Pearieafolia</i> , <i>Vinesta</i> , <i>Cærulea</i> .....	3
<i>Bonapartea juncea</i> .....	7
<i>Bougainvillea glabra</i> .....	4
<i>Bougainvillea spectabilis</i> .....	2
<i>Bouvardia carnea</i> .....	1
<i>Bouvardia Alfred Neuner</i> .....	2
<i>Bouvardia alba odorata</i> .....	4
<i>Bouvardia Humboldtii</i> .....	1
<i>Bouvardia rosea oculata</i> .....	2
<i>Brugmandsea sanguinea</i> .....	1
<i>Caladiums</i> — <i>Adolph Adam</i> , <i>Alfred Bleu</i> , <i>Annibal</i> , <i>Argyrites</i> , <i>Agropini</i> , <i>Dimiter</i> , <i>Baron Jas. De Rothschilds</i> , <i>Baroness De Rothschilds</i> , <i>Beethoven</i> , <i>Bicolor</i> , <i>Bicolor</i> , <i>Splendens</i> , <i>Chantenii</i> , <i>Splendens</i> , <i>Chantenii</i> , <i>Duc De Nassau</i> , <i>Dr. Lindley</i> , <i>Endlichemum</i> , <i>Esculentum</i> , <i>E. G. Henderson</i> , <i>Gerard Dow</i> , <i>Jules Duplessis</i> , <i>Leicnler</i> , <i>Louis Pinnier</i> , <i>Madame Alfred Bleu</i> , <i>Mons. A. Hardy</i> , <i>Newmanii</i> , <i>Onslow</i> , <i>Prince Albert Edward</i> , <i>Prince William</i> , <i>Refulgens Rubra</i> , <i>Splendens</i> , <i>Triumph de le Exposition</i> , <i>Perle De la Brazil</i> , <i>De Condol</i> , <i>Whiteni</i> , <i>Sedanii</i> , <i>Langii</i> , <i>Virginalis</i> , <i>Edward Andre</i> , <i>Lomertinii</i> , <i>Louis Pioner</i> , <i>Maribale</i> , <i>Hookerii</i> , <i>Horace</i> , <i>Reine Victoria</i> , <i>Napoleon III</i> .....	1
<i>Calceolaria herbaceous</i> .....	1
<i>Calycanthus Floridas</i> .....	1
<i>Camellias</i> — <i>Alba Pleno</i> , <i>Double White</i> , <i>C. M. Hovey</i> , <i>Fimbriata</i> , <i>Lady Hume</i> , <i>Duchess of Orkney</i> , <i>Imbricata</i> , <i>Candidissima</i> , <i>Elegans Candilier</i> , <i>Maculata Alba</i> , <i>Augusta</i> , <i>Jubilee</i> , <i>L'Averier</i> , <i>Princess Clotilda</i> , <i>Striata</i> , <i>Remelia Campini</i> , <i>Augustina Superba</i> , <i>Countess of Orkney</i> , <i>Duchess of Berri</i> , <i>Jeffersonii</i> , <i>Lowi</i> , <i>Laura Frost</i> , <i>Nipha De Zebrina</i> , <i>Mrs. Abbey Wilder</i> , <i>Montroni Vera</i> , <i>Me. Louis Van Houtii</i> , <i>Me. Verschaffeltii</i> , <i>Valtevareda</i> , <i>Marchioness of Exeter</i> .....	1
<i>Canna Ehemanii</i> .....	1
<i>Canna iridifolia</i> .....	1
<i>Chorozena cordala splendens</i> .....	1
<i>Chorozena lilicifolium</i> .....	1
<i>Cineraria hybrida</i> (in variety).....	250
<i>Chrysanthemums</i> .....	1
<i>Clerodendron Balfourii</i> .....	1
<i>Clerodendron Fallar</i> .....	1
<i>Clerodendron kæmpferi</i> .....	1
<i>Clerodendron speciosa</i> .....	1
<i>Coccoloba platyclada</i> .....	1
<i>Coleus</i> — <i>Alarm</i> , <i>Asa Gray</i> , <i>Bayard</i> , <i>Butterfly</i> , <i>Carnival</i> , <i>Chamelion</i> , <i>Chancellor</i> , <i>Chelsea Beauty</i> , <i>Dolly Varden</i> , <i>Glory of Autumn</i> , <i>Glow Worm</i> , <i>Golden Fleece</i> , <i>Lord Beaconsfield</i> , <i>Multicolor Splendens</i> , <i>John McLaren</i> , <i>Progress</i> , <i>Sultanii</i> , <i>The Shah</i> , <i>Yellow Jacket</i> .....	1
<i>Crinum amabile</i> .....	1
<i>Crinum Augustine</i> .....	1
<i>Cyclamen Persicum</i> .....	1
<i>Cyclamen rubra</i> .....	1
<i>Cyclamen giganticum</i> .....	1
<i>Cyclamen alba</i> .....	1
<i>Darlingtonia Californica</i> .....	1
<i>Dionea mucipula</i> .....	1
<i>Eranthemum peticulatum</i> .....	1
<i>Eranthemum sanguineum</i> .....	1
<i>Eranthemum versicolor</i> .....	1
<i>Daphnea odorata</i> .....	1
<i>Daphnea odorata variegata</i> .....	1
<i>Euphorbia jacquinifolia</i> .....	1

Euphorbia scandens .....	1
Eucharis Amazonica .....	1
Eucharis candida .....	1
Eucharis Japonica .....	1
Eurycles Australasica .....	1
Funkea odorata .....	1
Fuchsia, Storm King .....	1
Gloxinia grassifolia (in variety) .....	
Gloxinia pendula (in variety) .....	
Hedychium Gardnerianum .....	1
Heliotrope, Purple and Gold .....	1
Heliotrope, Snow Wreath .....	1
Hibiscus Collierii .....	1
Hibiscus fulgidus .....	1
Hibiscus Kermisinus .....	1
Hibiscus Lambertii .....	1
Hibiscus pleno-rubra .....	1
Imatophyllum miniatum .....	1
Impatiens Sultanii .....	1
Impatiens Hawkerii .....	1
Impatiens Martii .....	1
Ixia (in variety) .....	
Ixora aurora .....	1
Ixora, Prince of Orange .....	1
Ixora Javanica .....	1
Jasminum, Duchess de Orleans .....	1
Jasminum flora pleno .....	1
Jasminum, Cape Jasmine (Gardenii, Fortunii) .....	1
Justicia Carnea .....	1
Justicia splendens .....	1
Lasiandra macrantha .....	1
Lapageria alba .....	1
Lapageria rosea .....	1
Linaria cymbarnaria (Kenilworth ivy) .....	1
Linaria variegatus .....	1
Libonia floribunda .....	1
Lophospermum scandens .....	1
Mackaya bella .....	1
Mandevillea suaveolens .....	1
Meyenia erecta .....	1
Mimulus moschata .....	1
Narcissus (in variety) .....	
Oleander nerium (in variety) .....	
Pancratium maritum .....	1
Passiflora cœrulea .....	1
Passiflora, Constance Elliot .....	1
Passiflora fulgens .....	1
Passiflora macrocarpa .....	1
Passiflora princeps .....	1
Pilea artilleryensis .....	1
Persea gratissima (alligator pear) .....	1
Petunia Bonnie Dundee (and varieties) .....	
Physcanthus auricomus .....	1
Peisteria elata (Holy Ghost plant) .....	1
Pimelia decussata .....	1
Plumbago capensis .....	1
Plumbago coccinea .....	1
Curculigo recurvata variegata .....	1
Primula sinensis fimbriata .....	1
Primula sinensis alba .....	1
Primula sinensis Kennisiana splendens .....	1
Primula Japonica .....	1
Primula obconica .....	1
Primula Chinensis cœrulea .....	1
Ravena humilis .....	1
Rogiera gratissima .....	1
Roses—La France, Bon Selene, Camoens, Madame Cecile Bruner, Duchesse de Brabant, Maréchal Neil, Sunset, Grace Darling, American Beauty, President, Papa Gontier, Perle de Jardines, Reine Marie Henriette, Andre Schwartz, Lau- rette, Mignonette, Jacquimot, Maria Van Houtte, William Allen Richardson .....	
Ruellia macrantha .....	1
Russelia juncea .....	1
Sansevieria Zeylanica .....	1
Statice Halfordii .....	1
Stephanotis floribunda .....	1



PEACOCK ENCLOSURE.



THE ELK.





tigmaphyllum cileare .....	1
trelitzia Augustæ .....	1
trelitzia Reginæ .....	1
treptocarpus polyantifolia .....	1
treptocarpus Rexii .....	1
tabernæmonta coronaria (fl. pl.) .....	1
taconia Buchanani .....	1
taconia exomensis .....	1
taconia Van Vloxemi .....	1
tecoma jasminoides .....	1
thunbergia coccinea .....	1
thunbergia Harrisii .....	1
thunbergia laurifolia .....	1
thunbergia odorata .....	1
thysacanthus rutilans .....	1
toenia Asiatica .....	1
toenia Fournieri .....	1
toxicophlæa spectabilis .....	1
valloia purpurea .....	1
vinca alba .....	1
vinca rosea .....	1
viola sauris .....	1
viola Marie Louise .....	1
vuca quadricolor .....	1
vuca filamentosa .....	1
veris grandicops .....	2
veris hastata .....	4
veris internata .....	2
veris serrulata cristata .....	10
veris serrulata variegata .....	50
veris tremula .....	10
veris tricolor .....	1
vatycerium allicorne .....	4
vatycerium biforme .....	2

*Tree Ferns.*

Isophilla Australis .....	8
ibotium regale .....	1
iyathea dealbata .....	1
iyathea Smithii .....	2
icksonia aular .....	2

*Lycopods.*

alaginella aurea .....	1,000
alaginella caesii arborea .....	100
alaginella cuspidata .....	10
alaginella denticulata .....	2
alaginella grandis .....	2
alaginella involvius .....	2
alaginella Mertensii .....	3

*Palms.*

canthonhiza aculeata .....	1
reca alba .....	2
reca rubra .....	13
reca monostachya .....	1
reca sapida .....	1
aryota urens .....	7
occus insignis .....	3
occus plumosa .....	4
occus Weddeliana .....	2
hamærops excelsa .....	1
hamærops gracilis .....	2
hamærops humilis .....	2
inchona (in variety), Peruvian bark .....	304
orypha Australis .....	3
orypha decora .....	1
ycus revoluta .....	12
iclyosperma aureum .....	2
rymophleus Singaporensis .....	1
entia Australis .....	2
entia Belmoreana .....	1

Kentia Fosteriana.....	1
Latania borbonica.....	7
Livistona altissima.....	2
Macrozamia spiralis.....	1
Oreodoxa regia.....	2
Phoenix dactylifera.....	14
Phoenix reclinata.....	20
Phoenix rupicola.....	20
Pritchardia Gaudichaudi.....	1
Pritchardia grandis.....	1
Pritchardia Pacifica.....	3
Rhapalostylus Baueri.....	1
Raphis flabelliformis.....	1
Sabal Adamsonii.....	2
Seaforthia elegans.....	6
Seaforthia robusta.....	2
Thrinax argentea.....	2
Zalacea nitida.....	1
Zamia integrifolia.....	1

*Aquatics.*

Nelumbium speciosum.....	1
Nymphaea alba.....	3
Nymphaea Mearliacca chromoletto.....	5
Nymphaea cœrulea.....	1
Nymphaea dentata.....	6
Nymphaea rubra.....	2
Nymphaea Zanzibariensis.....	1
Nymphaea Devoniensis.....	4
Nymphaea flava.....	2
Ouvirandra feriestralis (lace plant).....	2
Piontaderia craceps major.....	6
Victoria regia.....	2

*Nepenthes.*

Nepenthes Chelsonii.....	2
Nepenthes gracilis major.....	3
Nepenthes Hookerianum.....	2
Nepenthes insignis.....	1
Nepenthes Rafflesiana.....	2
Nepenthes Sendi.....	1

*Orchids.*

Acineta Barkerii.....	2
Acineta Humboldtii.....	4
Aerides crassifolium.....	1
Aerides Japonicum.....	2
Aerides Leanii.....	2
Aerides odoratum coronatum.....	2
Aerides Quinquevulnerium.....	20
Aerides vividis.....	3
Angræcum falcatum.....	3
Angræcum pertusum.....	2
Angræcum sesquipedale.....	1
Angræcum virens.....	3
Barkeria Skinnerii.....	1
Barkeria spectabilis.....	2
Bletia hyacinthiana.....	7
Bletia Tankenella (Phajus grandifolius).....	7
Brassavola glauca.....	4
Brassavola oculata.....	4
Brassia candata.....	2
Brassa verrucosa.....	1
Burlingtonia imperialis.....	20
Burlingtonia venusta.....	2
Calanthe discolor.....	1
Calanthe oculata.....	3
Calanthe pleochroma.....	2
Catasetum media.....	1
Catasetum maculatum.....	1
Cattleya amethystina.....	2
Cattleya citrina.....	1

<i>Cattleya aurea</i> .....	1
<i>Cattleya chocensis</i> .....	1
<i>Cattleya Wamery</i> .....	1
<i>Cattleya El Dorado</i> .....	3
<i>Cattleya Mendellii</i> .....	1
<i>Cattleya gigas</i> .....	2
<i>Cattleya insignis</i> .....	1
<i>Cattleya Percivallianum</i> .....	1
<i>Cattleya intermedia</i> .....	2
<i>Cattleya speciosissima</i> .....	1
<i>Cattleya labiata</i> .....	1
<i>Cattleya mossiæ</i> .....	2
<i>Cattleya Skinnerii</i> .....	10
<i>Cattleya splendens</i> .....	1
<i>Cattleya Tianæ</i> .....	6
<i>Chysis aurea</i> .....	2
<i>Cælogne cristata</i> .....	4
<i>Cælogne ocellata</i> .....	2
<i>Cymbidium incifolium album</i> .....	2
<i>Cymbidium incifolium rubrum</i> .....	1
<i>Cypripedium barbatum</i> .....	20
<i>Cypripedium argus</i> .....	1
<i>Cypripedium insignis</i> .....	58
<i>Cypripedium villosum</i> .....	1
<i>Cypripedium Pearcei</i> .....	15
<i>Cypripedium Boxallii</i> .....	1
<i>Cypripedium Sedenci</i> .....	50
<i>Cypripedium Dominicanum</i> .....	1
<i>Cypripedium Spicerianum</i> .....	3
<i>Dendrobium angularia</i> .....	1
<i>Dendrobium cacaltatum</i> .....	1
<i>Dendrobium Dalhousianum</i> .....	2
<i>Dendrobium Dearei</i> .....	2
<i>Dendrobium Hillii</i> .....	6
<i>Dendrobium Farmerii</i> .....	2
<i>Dendrobium Japonicum</i> .....	58
<i>Dendrobium Kingianum</i> .....	2
<i>Dendrobium nobile</i> .....	10
<i>Dendrobium Pierardi</i> .....	5
<i>Dendrobium thyrsiflorum</i> .....	3
<i>Dendrobium pulchellum</i> .....	3
<i>Dendrobium superbum</i> .....	2
<i>Disa grandiflora</i> .....	4
<i>Epidendrum brassavolæ</i> .....	2
<i>Epidendrum cinnabaronum</i> .....	7
<i>Epidendrum cochleatum</i> .....	20
<i>Epidendrum cuspidatum</i> .....	10
<i>Epidendrum paniculatum</i> .....	3
<i>Epidendrum vitellum</i> .....	20
<i>Gongora portentosa</i> .....	5
<i>Gongora punctata</i> .....	3
<i>Lælia acuminata</i> .....	2
<i>Lælia acuminata rosea</i> .....	1
<i>Lælia anceps</i> .....	2
<i>Lælia anceps alba</i> .....	3
<i>Lælia autumnalis</i> .....	6
<i>Lælia crispa</i> .....	4
<i>Lælia Hillii</i> .....	2
<i>Lælia superba</i> .....	3
<i>Leptotes bicolor</i> .....	1
<i>Lycaste aromatica</i> .....	20
<i>Lycaste Deppei</i> .....	30
<i>Lycaste lanipes</i> .....	2
<i>Lycaste Skinnerii</i> .....	18
<i>Lycaste Skinnerii alba</i> .....	2
<i>Masdevallia Dayana</i> .....	2
<i>Masdevallia elegans</i> .....	1
<i>Masdevallia citrina</i> .....	1
<i>Maxillaria grandiflora</i> .....	4
<i>Maxillaria tenuifolia</i> .....	1
<i>Mesopinidium sanguineum</i> .....	2
<i>Odontoglossum Barkerii</i> .....	1
<i>Odontoglossum cirrhosum</i> .....	1
<i>Odontoglossum citrosimum</i> .....	1

Odontoglossum citrosmum album	1
Odontoglossum citrosmum roseum	1
Odontoglossum citrosmum Alexandra	1
Odontoglossum crispum	2
Odontoglossum grande	20
Odontoglossum Hallii	1
Odontoglossum Insleayi	2
Odontoglossum pescatorei	10
Odontoglossum maculatum	1
Odontoglossum vexillarium	2
Oncidium ampliatus	1
Oncidium Barkerii	1
Oncidium Cavendishianum	2
Oncidium concellatum	4
Oncidium leucochilum	20
Oncidium ornithorhynchum	1
Oncidium papilio	2
Oncidium Warnerii	2
Peristeria elata (Holy Ghost flower)	12
Phanix alba	3
Phanix maculata	2
Phanix Blumeri	1
Phalænopsis amabilis (butterfly orchid)	10
Phalænopsis grandiflora	1
Phalænopsis Schilleriana	17
Renanthera coccinea	2
Saccolabium guttatum	6
Saccolabium pulchrum	2
Saccolabium retusum	1
Sobralia macrantha	2
Sophronites grandiflora	2
Sophronites violacea	1
Spathoglottis furtuni	2
Stanhopea aurea	6
Stanhopea grandiflora	4
Stanhopea insignis	4
Stanhopea martiana	3
Stanhopea maculata	7
Stanhopea oculata	3
Stanhopea trigina	4
Stanhopea Wardii	6
Thunia tricolor	4
Thunia Bensonii	2
Tucopelia tortilis	10
Vanda concolor	1
Vanda densiflora	2
Vanda guttata	2
Vanda nebulosa	1
Vanilla aromatica	20
Zygopetalum McKayi	1
Zygopetalum majus	1

## Ferns.

Botanical Name.	Common Name.	Number.
Adiantum amabile	Maiden-hair fern	40
Adiantum assimile cristatum	Crested maiden-hair fern	2
Adiantum capillus	True maiden-hair fern	20
Adiantum Bauerii	Bauer's maiden-hair fern	1
Adiantum cuneatum	Cuneate maiden-hair fern	150
Adiantum concinnum	Circinate maiden-hair fern	10
Adiantum decorum		2
Adiantum Farleyense	Brazilian maiden-hair fern	25
Adiantum formosum	Grand maiden-hair fern	10
Adiantum gracillimum	Most graceful maiden-hair fern	20
Adiantum Hendersonii	Henderson's maiden-hair fern	1
Adiantum Sudemanni	Sudemann's maiden-hair fern	2
Adiantum macrophyllum	Large-leaved maiden-hair fern	4
Adiantum multifidum	Much divided maiden-hair fern	3
Adiantum monochlamis	Single arranged maiden-hair fern	1
Adiantum pedatum	Canadian maiden-hair fern	5
Adiantum pentophyllum	Five-leaved maiden-hair fern	2
Adiantum patens	Blue maiden-hair fern	1



## FERNS—Continued.

Botanical Name.	Common Name.	Number.
<i>Adiantum Peruvianum</i> .....	Peruvian maiden-hair fern.....	6
<i>Adiantum Princeps</i> .....	.....	10
<i>Adiantum Santa Catherine</i> .....	St. Catherine's maiden-hair fern.....	7
<i>Adiantum trapeziforme</i> .....	Rhomb-leaved maiden-hair fern.....	3
<i>Adiantum Williamsii</i> .....	Williams' maiden-hair fern.....	9
<i>Adiantum Banksii</i> .....	Banks' maiden-hair fern.....	1
<i>Aspidium</i> .....	Shield fern.....	4
<i>Aspidium trifoliatum</i> .....	Three-leaved shield fern.....	2
<i>Asplenium alatum</i> .....	Winged spleen wort.....	12
<i>Asplenium Belangerii</i> .....	Belanger's spleen wort.....	2
<i>Asplenium bulbiferum</i> .....	Bulbous spleen wort.....	12
<i>Asplenium fulcatum</i> .....	Falchion-leaved spleen wort.....	7
<i>Asplenium viviparum</i> .....	.....	2
<i>Blechnum Boreale</i> .....	.....	1
<i>Cheilanthes vestita</i> .....	.....	1
<i>Davallia cristata</i> .....	Crested davallia.....	12
<i>Davallia bullata</i> .....	.....	6
<i>Davallia Japonica</i> .....	Japanese davallia.....	20
<i>Davallia Moreana</i> .....	More's davallia.....	7
<i>Davallia tenuifolia</i> .....	Narrow-leaved davallia.....	5
<i>Gymnogramma chrysophylla</i> .....	Yellow-leaved gymnogramma.....	1
<i>Gymnogramma decomposita</i> .....	.....	4
<i>Gymnogramma sulphureum</i> .....	Sulphury gymnogramma.....	8
<i>Hymenodium crinitum</i> .....	.....	1
<i>Hymenophyllum</i> .....	Filmy-leaved fern.....	1
<i>Lastrea aristata</i> .....	Male fern.....	2
<i>Lomaria Gibba</i> .....	.....	2
<i>Lomaria heterophylla</i> .....	.....	2
<i>Lomaria lanceolata</i> .....	.....	1
<i>Lygodium scandens</i> .....	Climbing snake's-tongue.....	40
<i>Microlepia hirta cristata</i> .....	Crested fern.....	20
<i>Microlepia Emersonii cristata</i> .....	Emerson's crested fern.....	4
<i>Nephrodium molle</i> .....	.....	8
<i>Nephrodium truncatum</i> .....	.....	3
<i>Nephrolepsis Banksii</i> .....	Banks' nephrolepsis.....	6
<i>Nephrolepsis davalloides aristata</i> .....	.....	10
<i>Nephrolepsis Duffii</i> .....	.....	25
<i>Nephrolepsis encifolia</i> .....	.....	10
<i>Nothochlæna lanuginosa</i> .....	Woolly fern.....	1
<i>Pteris argyrea</i> .....	Silver bracten.....	40
<i>Pteris grandicops</i> .....	.....	2
<i>Pteris hastata</i> .....	.....	4
<i>Pteris enterinata</i> .....	.....	2
<i>Pteris serrulata cristata</i> .....	.....	10
<i>Pteris variegata</i> .....	.....	50
<i>Pteris tremula</i> .....	.....	10
<i>Pteris tricolor</i> .....	.....	1
<i>Pilatycterium alciorne</i> .....	.....	4
<i>Pilatycterium biforme</i> .....	.....	2
<i>Polypodium aureum</i> .....	.....	1
<i>Polypodium vulgare</i> .....	.....	1
<i>Scolopendrium crispum</i> .....	Curled-leaved.....	1
<i>Todea Africana</i> .....	.....	1
<i>Woodsia illvensis</i> .....	.....	1
<i>Woodwardia radicans</i> .....	.....	1





city<sup>er</sup>







